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NTENTS

24 WHICH COMPUTER?

It isn't often that you see a home computer in these hallowed pages that doesn't have an Amiga logo on it. This month things are different.

Since the launch of the new A4000/030 machine we've decided that the home computer market has got too crowded. There are Amigas, Ataris, Acoms, Apples and IBMs, Surely all these machines can't really be the same? Obviously not For a start, some are more expensive than others.

What are all these machines for, what are the differences and which is best tor what? That's what our team of experts are trying to find out on page 24.







147 AMIGA WORKSHOP If you're interested in the more serious side of the

Amiga, then this is the place for you. Each month our team of experts detail how to get the most out of your machine and the many and varied software packages that exist to help you do just that. This month we reintroduce the popular DIY section, with a complete step-by-step to help you build your own sampler. In addition we continue our regular D-Paint, Workbench and AMOS tutorials. Last, but not least, there's more Amiga books and clubs reviewed plus loads of reader's letters answered in our own indominable style.

REGULARS

- NEWS We reveal who's got the rights to Amie's new film and hell all about an exciting new deal to bring more Sega games onto the Amiga. Plus all the latest advances in nedous software
- COVERDISKS
- **GAME PREVIEWS**
- **CAME REVIEWS**
- See panel on opposite page DI AV TO WIN
 - As well as the unuel top tips these are complete pleyer's guides to Body Blows and The Chaos Engine (world 1).
- PRODUCTIVITY REVIEWS See panel on opposite gage.

- 128 ART CALLERY
- Some of the first A1200 oxes are starting to appear in our mailbegs. This month we leature a fantastic 256-colour D-Painting
 - **AMIQA PROFILES**
 - What do dentists end Amigan have in common? Quite a lol if you're Andrew Gould - Multimedia Dential
 - PD SCENE
 - More A1200 magic hits the PD Scene with a slide show from Cynostic Plus, one of the
 - 137 PD UTILITIES

What can the public domain do for me? You may well ask. How about cheap fonts for video work, excellent integrated business packages and utilities to back up your hard desk? They're all reviewed this month

OFF THE CUFF



Howely partаузы стоп and the com epolyaford of Gentlerd of the OK Corral as six of the best home comput nos modey can buy sing it onl

them can truly claim to offer the best nil rennd-performance. Will the A1299 come not tops, or will Atan's Falcon take the grown? To find out, turn to per lead feature page 24.

rwhirm this issue, yon've probably already discovered the cave gram, The Art Department. This would ually cost on arm and a leg to buy com murcially, but we've snapped up the rights to give it to you for obsolutely nothing. In case you're not familiar with the package if a n graphics program which nilows you to create n wholn range of welld and wonderful effects of the click of a button If it's games you're nilm, then you'll doubt-less find sumething to inferest you in this menth a sensually extended First Impressions column We've got a hot-off the-grasses report from the European

Computer Trade Show and preview ALL the had games you'll be playing later this year! Whive hiso mapped the world's first review of Oling Dinit's Gastl, the speciacular following to Kick Off 2 – it's a bugger and you can ONLY read about if here in CU Amige! Other things to take note of thre issue are our comprehensive 32-page AMOS guide tucked away between propes 146 and 147; the superb true video offer from Bargess Video Gronp, and on: Buyer's Guides, which this month concentrate on External Olsk Orives and Business Software And finally, before I leave you in pence I'd just him to pass on my heartlest congratule tions to Jon and Toay for their expellent performance in the Sensible Soccas World Cup. They linished betters of all the mags taking part, so they're fired!

MEXT ISSUE ON SALE 26TH MAY

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niow status an managem Nigri Reylor State Price AD MANAGEM Secti College, BALLES SKIR. CUTTER OF THE PROPERTY AND INSENT WHICH. MANAGEMENT EDITOR Steen Juries MANAGEM Corry William EDITORIAL II ADVENTAMO 071-972-5700

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GET SERIOUS

PRODUCTIVITY REVIEWS PRODUCTIVITY REVIEW

The Arrega music scene is taking off tast and we've got it covered This month there's two new softwere packages for buckling musiclans. et both ends of the scale - for the hobbyist, page 102, and the protessional, page 106 - Including an exclusive look at the synth you can put in your Amige, page 108. Plus there's the usual range of top quel-By productivity software examined in depth

- 100 PHOENIX JOYSTICK
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- **EXTERNAL ORIVES** 125 BUYER'S GUIDE TO **BUSINESS SOFTWARE**



dore a super silick med ster? And that a before you edd the vivinal ne-precessor, iso. See it first in CU rige on page 125



guage? Well, look out for this nothering CanDelive up to its name

IN-PICTURE 121 PC1204 EXPANSION/

SCREEN SC

GAME REVIEWS GAME REVIEWS GAME REVIEWS If you ever doubled that CU Amiga has the best games coverage then think agein! To prove that we're top of the heap not only have we brought you two exclusive reviews but we've got a special guide to ALL the major games thet'll be accessing on the Amiga over the next 12 months. But, what about the current crop of garning greats? Will Superfrog smash Zool out of existence? For the answer to this and many other puestions

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- **BDDY BLDWS** S9 PLAY TO WIH
- THE CHAOS ENGINE
- **B3 TROLL'S NEAD**
- 98 KIXX COMPETITION



hits the Amiga. Read about this Supe raied senection first on page 48.



fully on D-Day? Only you can decide in

GOVERDISKS

coverdisks. We promised it and new you've get it - Art Separament or full. Plus, there's some AMOS routines to make your programs plune. Also, for war funal les overywhere TWO whole Desert Strike minutes.

DISK 56

PAGE 14

This month we have surpassed purselves. If you thought the AMOS disk was lough to beaf then you're in for a shock. On this month's disk you will find the most essential graphics loof for the Amige - ASDG's The Art Department (TAD) This software can manipulate virtually every aspect of eny graphics image file you care to load in, and with an impressive array of loading options that's quite e lew. The contrast, brightness, colour and gamma correction tools make it invaluable for env video work. Coupled with the extensive dithering modes and scaling tacilities it

is also a must for anyone with a printer - you can even use TAD to colour congrete files for DTP wark.

Sprinkle on a few special effects and you have the most upmissable utility ever One of the best programs around



DISK 87

PAGE 16

When we saw Desert Strike we gave it a whopping 93% and e CU Arrige Superatar So, we thought it only tair that you should be given the chance to play this amesh shoot 'em up loc Tele the controls of the World's most teared combat helicopter and quide it through TWO complete missions. Smash The evil dictator, General Kilbaba, by hitting him where it hurts. First, crush his radar sites so that the SAMS can't treck you as you head for the airport. Then, catch his planes like sitting ducks with a few carefully placed air to-ground missiles. That's not the only action you'll see as along the way there'll be

nities to blow up SAM missile launchers, rescue friendly flyers, steal enemy ammo and fuel, straffe defenceless buildings and rain lead death down on Kibaba's troops For peace lovers every-

where - NOTI



A4000 UPGRADES ON THE WA

Information is already beginning to circulate about possible Commodore menulactured upgrades for the A4000 end other machines. The first of these will most likely be a display enhancer, rather like the Rehns. card reviewed last issue, which will offar extended resolutions True 24-bit colour and flicker lixer capabilities

This would seem to be in with the rates getable graphics routines included with Workbench 4, which is now in lesting with some developms. These routines will allow any softwere to take advantage of the extended displey options evellable through the card, and will result in applications behaving on the Amiga more like their con

probably be lowards September of the earliest

40 As aver, the release schedule is sketchy, but with Workbench 4 now heavily into its test cycle it will

Unfortunately for music lans there is very little on the grapevine about a DSP modula becoming available. The Alan Falcon is finally evaluable in the shops sporting its Motorole 32MHz DSP, and may win some triende in the music industry unless the Amiga econ acquires the capability to compete in this area

ADPRO ON

Art Department Professional, the high can read and write broadcast quality images in the Toaster's Framestore formal. Videogrephers now have deuct Framestore-to-D1 digital video connection using ADPro's ABEKAS digital video driver. This is locary a most affective means of moving video date to and from the Amiga, and has been used in high profile productions Including Quantum Leep and the American Music Awerds

The new 2 3 update also has a end the 24-bit Qoal Paint This means Image or animalion in both applicalions, with no need to continually save files from one to be loaded into contact ASDG, 925 Stewart Street

THE LAST ACTION HERO

In a surprise move, CU AMIGA can acclusively reveal that Psygnosis have scooped two of the hottest movie Ycanaes of the year Beating off slift competition from both Ocean end Virgin, the Liverpool-based software house has snepped up tha Amigis rights to both The Last Action Hero and Cliffhanger! Heven'l heard

ouler space film promo!

of either movie yet? Don't worry, you soon will have! The East Action Help is the latest vehicle for Terminator 2 and Predator star. Amold Schwarzennoger, and promites the usual mix of gags and gunpley as our gun-toting out plays a one men erroy taking on a gang of international terronsts. In a twict to the usual hackneyed plot, though, Amie's cheracler ie a fictional figure in a movie within a moviel The other film, Cliffhanger, stars Sylvester Stations in which the Italian Station takes on (eur prise, surprise) e gang of international terrorists! Talk about

ougunelity, eh?! This time Stallone plays a mountein tour guide who becomes embrolled in a deadly lerrorist bomb plot which involves a race against time to thwert their plans Both movies should be out for the summar and are backed by multi-million dollar promotional campaigns. Amili's even coughad up the readles for a special Last Action billboard to be placed in orbit by NASA's Space Shuttle, making it the first

MORE SEGA GAMES HIT THE AMIGA

Accision and are ec its verge at signing on exclusive one tract is decyar) some of the Mayadove a log biles anto the Amise. This papid open the Head gales in sech games as Seco the Detains, Fermioson 2 - The Arpede Game, Jos Mandera, Tarmenta Streets of Rape 2 and Mickey Mouse's

Ecop in Sege's grance-breaking escade advactura which sits the mule character, a delphir, op epolest various infurwates wells and citimately a group of anticolarly posty ellines. While It'le may exand a bit 'off the wall' woo citical social m from all the big Sage magazices.



alista repo MagaTach Hezmahlie Segt 5 Bar caroble will Digazy else stalded the World Ol

Wasser, which stars Mickey and Donald Apart from its atonoung graphics. WOL is actually three games in oca with the action dependent on which of the bey characters

you're controllice Away from the cute stull and in the realm of rock-hard estion is Streets Of Maga ? This heat 'am op has been a managed had on the currectly Streatistian-sterved Magafrica il isobres i una main characters an a quast le knock seven bells out of the vitteles in their celebbocrhood arrand this with a fazzlets array at moves and whetever sessions come to hand Jos Mocines, on the other hand, is e suectacules American Football aim to rival avec EA s acciniment Aska Maddee auren. It franzisies absolutely Ico all fieldsed seench and admirably straightforward game

play - man or those of of who howas'l not e cles eboxl the real life Other

Sern Illias

find their way acto the Amiga locines Accieim's Super High there's the police is heal on the other learn and play sirty end Arch Rivais oce of the most coefficie backethall almo

Untertaintelly, Sego's Segobly bills and marketing lifesaver, Sonic The Medpedog, dough't look Heely in appear an the Amine. The bice hadon her in most definitely going to stay Sege-specific in the forestable lubits

COTY MEMORY FIX

Even though the CDTV was supposed to be 100% competible with standard Amige software this was seen found to be wishful thinking. The incompatibility is nothing to do with new chipsels. processors or graphics modes, but something far simple: - the CD driva. To keep the access speed at a decent rate, a RAM buffer is put sade for the CD drive. This is taken from the 1Mb of onboard RAM, leaving less than 1Mb for everything also in the event that a game loaded from lioppy disk uses the full 1Mb, there's simply not enough memory for it to run

CD Free have a solution in the form of a switch which disables the CD drive, giving back the buffer to the system CD Free claim this cures 99% of COTV competibility problems. See how a lares when we jest if next month. For more info, contact CD Free on 0388 813661

new developed for the Harlequin graphics board, TV Paint has established itself as the best 24-bit " peckage on the merket. Now it's been upgreded to version 2.0, and redssigned with Workbench ase's eximind. Improvements now allow you to open up severel menu windows at once, zoom the whole screen in and out, end have separate screen and working page resolutions. When used with a pressure-sensitive graphics table). The pressure now affects the brush size, as well as the density Pressure sensitivity can be toggled on or off. Other new leatures include chalk and crayon modes. blurred transparencies and improved ARexx control. For further information contact: Arriga Centre and, Herieguin House Walkerburn Peeblesshire, Scotland, EH43 8AB Tel; 089 687 583

SILICA'S SUB-£200 AMIGAS

Have you over wondered what happened to at those A500s, after they were superseded by the A600 and A1200? Some of them have turned up at Seca. who are knocking them out at a very tempting £199 0 you fancy a bit more than the standard 1Mb A500. Preve s also e 2Mb version selling lot just £229, which includes a software bundle consisting of Zool, Amount Dreams, Striker and Transwrite For more information contact Shoa Systems 1-4 The Mews Hatherley Road, Sidoup, Kent, DA14 4DX, Tel 081 309 11 11



MEMORYMASTER 1200 They're coming in thick and lest now - 1200 memory expansions are appearing from all cor-

ners of the globe. The MemoryMester 1200 re the latest to be ennounced, end hels from BSC In Germeny The Irepdoor board expansion comes populated with 1Mb Fast RAM, expandable to 9Mb and has provision for either a. 68881 or 68882 co-processor, should you wish to edd one. Further 4Mb ZIP DRAMs can be installed to give a maximum of 9Mb on the board, in addition to the 2Mb internel Chip. RAM For further information, contact BSC on



LEMMINGS HIT THE CHARTS

Lemmings on The Chart Show? If could happen sooner than you think! Paygnosis heve loined forces with producers Ian Richardson and Nick Coler (whose previous clients include The KLF), and come up with the official Lemminos pop single

Using samples from the game ('Oh no!, 'Let's gol' etc.), the track works in snippets of rap and soul, throws in a few catchy riffs, and wraps it of up in a bouncy dence beel. For those who think that bit bigger, there's the 12 inch vinyl and CD, which Include the extended BeBox and Hamster Jem. mixes. How will it fare equinst the trendy Joey Negro mixes of Mega-lo-Mazas, recently released from the Sega MegaDrive game?

Mark Blewiti of Paytinosis commented Lemmings 2 is noting high in the Amiga charts and the console charts. The record should do well in the singles chart' Levnmings is released on 4th May on Synthetic Records, available on 7', 12".

OCEAN SIGN MILLION POUND DEAL

eputer entertainment authorie is afficially 8-1-0 business ers, Digital Image Design, have recently signed a SEVEN FIGURE ustrishing deal with Conor for unclusive rights to their next six products. Set up in July 1930, 010 have already not no impression list of number credits to thair name, including F-2R Protector 3 and the space-central classic, Epic Gary Bracey, Ocean's Seffwere Director Ibelieves that OID are refficul greation the leading light in 30 parton feverogree ed that Ocean are now 'well placed to made serious in-roads into the future of CO garding' For further into so the next but bleases from GIO, check Stis month a First Impresentes

TURNING JAPANESE AMIGA 1200

Traditionally, the Amiga hae feiled to make much of an impact in the Land of the Rising Yen, so it's encouraging to see Commodors ettempting to with their newest machine. Even Login megazine, the country's top computer enterteinment little. has started to cover Amiga games, which can't be a bad thing

010 49 89 357 1300

ALISTAIR IN OUTER SPACE Nothing to do with the defunct pop group of the

same name. Altered images have just released their CDTV version of Alistav in Outer Space. edapted from the Penguin children's book Almed et 5 to 9 year olds, It's e 26-page narreled etory book, with the added attractions of simple sub-games and a colouring book mode It'e currently evallable et £24 99, but Altered Images are still on the lookoul for a major distri bution deal. Interested parties should confact: Allered Images, 39-41 Rolf Avenue, Bedlord, MK41 7TH Tel 0234 340722.





VECTOR CLIPART

solid educts and asimalless. Gress are not subs all va which can be used dowever you lide, with the software of your choice. We would have a messive repected 30 cities extilledie, with large actions ferroled is malerny cars, affentis elected, foots aport, tealers and vertices miscel mouse terms. Viewpoint publish a catalogue with large liberators of all the citys available. For more late, son test Viewpolet, 870 West Centre, Drem, Utah, 84357, USA Tel 0101 801 224 2222





Sinks, straight in at number one

1. Deport Strike

3. Chace Engine

4. Superfrog (Team 17)

6. Indiana Jones IV

8 B17 Flying Fortnes (Micro

10. Sleepwalker (Ocean) CALLING ALL CODERS

Have you written a currence utility, a fightning fast game, or e professional quelity application? Do you want to make some money from #? If so, RBF Software want to hear from you. They currently hold distribution rights to the highly copular OctaMED Pro, and the genealogy program A-Gene, and ere on the lookout for new products. As an added incentive. There's a competition being run for the best programs. First page is an A1200, secand is a hand scanner, and third is a portable colous LCD TV, Any submitted programs must be the euthor's own work, and must not have been released as PD. RBF's policy of keeping retail prices as low as possible has worked well, and if you'd like to get in on the act, send your programs to: FIBF Software (CU), 169 Date Velley Road Hollybrook Southampton, SQL 6QX, England

STREET FIGHTER 2

That's right, Blanka, Chun Li, Ken and co., ere ell sel to star in their own probati game! Designed by pintell kings, Gottlieb in close essociation with Capcom, the new table leetures the car crunching sequence from one of the sub-games in the onginal video game. A ministure cas is displayed beneath. the ptayfield and this gradually gets crunched up as the ploball crashes into it. Chun-Li's helicopter kick. has elso been edapted for the table so that players

byouss the flaper and sneak by Chun-Li'e kick. Wetch for it at an arcade near you soon! **MICE IN SPACE**

builts improved if will be recreated a press of bistory with it Do-board is a siece of luctinology that has taken Micronett years to severing. This hi-turk periaberal in a masse that will asteally work in zero-gravity, so well as pulling up with all the other rigores of segue.



THE COMMERCIAL PROGRAMMER'S **GUIDE 2ND EDITION**

If you're interested in writing your own commercial games, you'd do well to learn about some of the pitially before you go daying in. The 2nd existion of the Commercial Programmer's Guide has just been published. and offers advice on organising your code, developing your ideas into commercially viable forms, desing with copyright, presenting yourself and your game to publishers, and publishing your own gemes. It's priced at 69.95 (ISBN 07457 0155 A). For more job, contact Kume on 0734 844335.

AMOS PRO PRICE DROP

from £69 99 to £49 99. The global according elumo has lead to the drop in price, a measure necessary to keep the user base growing, and keep the AMOS Professional support going. The updete disk is also now evailable, giving A1200 and A4000 owners the opportunity to gal Into AMOS Pro, The PD update also fixee the bugs which caused incompatibility with earlier versions of AMOS, Compiler and 3D. For more information, pontact Europress Softwere on 0625

NEW HIGH RES

If you've not yourself a spanky new A1200 or A4000, how are you to get the best from your machine's wonderful new AGA graphics modes? New Horizon Computers have just released a couple of new manitors that could just hold the answer Coming in 15 Inch and 17 Inch screen sizes, the Vanilla monitore use FST Inchnology to give a flatter picture with minimum distortion. Hires graphics will benefit from the 0.28mm dol pliches employed by both models, which combined with an 50MHz bandwidth, should give crystal clear pictures. For more info on the Venilla range

contact New Honzon Computers on 0989 750260

HISOFT ACQUIRES AVR Well stown for their Anigs digitaers, including time video/sernal digitions Videomastes, Audio Viscal Research have been alonghi by HISoft. Development and expansion of AVR's range will continue through HISoft. who promise new herewere and multiwards products in the future. For tester into, nortest, HiSoft, The Old School, Grandfald, Badlard MK45 50E, Tal: 0525 71F181

ONE FOR THE LADIES Doen you joysting reetly satisfy? Don't you ever went san thing lest a bit. Higger? Or maybe you so you if Steen who

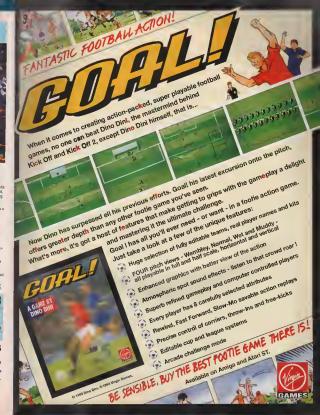
thinks the base of the invotice gets in the way, right at the enti-Inal moment Well get a load of Logic 3's Free Flight: This maneter of a sting correct movement with a set of sea leans noticed excitators as there a un count for a buse. If we a designed by a couple of pilots primarily for use in Hight sime latrons, but it does have other uses. Contact Logic 5 on 061 902 2211 (Photo withdrawn in the saterasts of decency - Ed)

WESTWOOD **LOOK EAST**

ans for any farisis: Amus releases, all is eal lost. The American-based development north pany are estively neaking a European partent a consent their PC titles own to the Amine and are close to signing a deal with a leading UK team In case yes re goaware, Washinged own the creative lorse defind both five of the Seholder and Eve of the Seholder 2, as well as ite wall-rannived graphic advantage, Angune is rearing completion on the PC and is



stready garranne planty of inforest. Utilisang
the first jurison pursportive, Land in almost beause the sage of EOTEZ, and is set in the real would rethe then the usual disagram. refronment. Hepatully, sees a deal has been signed, the Arriga version can put molecular sound



Games marked NOP will not work on A500 Plus, A600 or A1200 AMIGA SOFTWARE Games marked NOI2 will not work on the A1200. SPECIAL RESERVE TOP TEN AMIGA GAMES OF FEBRUARY/MARCH 1993 12.99 MAY WHITE S SIEG NETERS 14.99 11.99 11.99 13.89 14,49 12.99 AMIGA A600 LEMMINGS PACE DATE DESC . WHENCH





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ERDISK 56



Just switch on your Amiga and insert the coverdisk. Double-clicking on the icon that appears will call up a window displaying the contents of the disk. Most of it is taken up with The Art Department, with two separate

drawers for the AMOS files and the Virus Checker, so it's easy to find your way around!

YOUR QUICKSTART GUIDE TO LOADING DISK







Firstly, switch off your corrector and leave it ion or least 20 excends betwee switching or again. This being prevent this appeal of airpose, cheald any in present in the system. Then

turn on and boot up from the CU coverdisk When Workhough appears, double-cilch so the disk less (it's called TAO). A small window will appear with leads of confusing icons in it Ope's worry about any of those spart from the elig one called The Art Opportment. This is the pre-

gram and drobbe-circking on ill will cause it to load The Workbanch will be replaced by a sarean consisting of buttone Locate the one near the top left-hand comer cells if LOAD' and click or II once A sile repressor will appear giving a catalogue of the files on the diek. Click on the down

arrow smill the "Pice" directory appears, then click on it once A new directory will be tooded, showing the tiree demo files on the disk Two of these trips may repairs store then 186 is load, as they are very large. 186 seem about agent the lits 'Astron HAM' (by highlighting it with the mones) and

effek in the OKI ben After a brist wall the file will load and be displayed on screen Click once with the mouse to rotem to the control

New let's try an effect. Click on the "Calser to Grey" has The impos will then be processed which should take about two or three seconds. To see the changes click in the Execute box The trage will now by displayed in all it's

mana ciary How lry clicking on the 'Line Art' box Again the process will lade a law eccender Oisplay the Image ic the same way se belore, and you will see that If's all good horrisis. You, well, that's whal is supposed to happen. This is a very applici I nature though expectably when send to proper artwork for printing and further modification in Brains For infibur details on all the ellects and operations, see



IF YOUR DISK WON'T LOAD

these mands to the letter, and if after that you lied that the disk still doose't work. It so pay it to an econologic with a covering Her amplifields what the problem to to CO DISK HETURALS PC ISE, DOWNLAIS TOP HUGINESS PARK, MEATHYM TYDER, MID-SLAMOPGAN, CF61 21Y. Please Include 2F pance per dige le cover postuge and suching (58 posco for assurance randors) Your fint will be ferind and a raw working one dispriched to

Il your problem to a little manu organi. Son call the # C Ware deliting for advice at OTTP 350505. The lies in open before a 1030 and 1230 Monday to Friday. Plants outs that no ther we not BC Wise accept responsibility for any sisks damaged dur to negligence on the part of the most

ther magazines rave about II, but only CU Amiga can convince ASDG to give It eway totally Irea! The Art Department as you heve probably gathered by now, is a fully-lestured 24-bil graphics manapolation program

With The Art Department you can finally break into the realms of true 24-bit Images. It doesn't matter if you don't have a machine to display them on, but if matters when it comes to exporting them to other machines or even just printing them out The Art Department performs operations internally In a 24-bit resolution, which makes for better quality resnits no matter what colour depth they are finally displayed in

To load The Art Department simply doubleclick on the Icon and after a few seconds of disk activity, a screen like this will appear

This to the main control panel for The Art



Department. All of the features of this package are controlled directly from this screen there are no menus et all.

The controls are all activated by the various "buttons" on the screen, of which there are two types. The first type are selectors. These are used for choosing one option from the range available, and work by cycling through each possible permutotion when they are activated. A good example of this is the colour button. Each time you ectivate it, a new colour resolution will be displayed



bein of these pictures are exectly the same spert from one lining - the one above has been dithered in TAD This prev a smoother transition between blocks of soleting



The other buttons actually perform some opera tion, or call up a requestor which performs some action. The operations take effect on the 24-bit data immediately, but you won't get an immediate display on the screen. To see the changes, you must pick on the execute' button. The is because all the calculations are made on the raw 24-bit data in memory, which is only converted down to the screen display you have exlected when you execute it. This may seem cumbersome, but it means that the integrity of the data is not effected if you vou'd rathar have a HAM Image

Most standerd screen modes are supported, and the software will work on AGA machines, but it will not support 258 polour or HAM8 modes. Some other display modes are supported though, including varients on the Dynamic HAM standard.

That's about all there is to it, the program is generally intuitive and easy to use, but to help you if you get stuck we have bulled ASDG into leiting CU reeders get a full manual et e discount price check out the offer on page 17

LIBRARIES AND DEVICES Geess locally on our coverbisk some superarra make use of Uhrarine and other evetern films which are not permally

Igend on a standark Workburch disk. The result is that These attrifes will pur tipe on the coverdish but pel if you heat from another disk. The way expend this is to casy the required librarius unte your Workhunch bisk, To do this simple hard as from your cooms! Workboach

tisk and onles the CLI. Fol the coverdisk in 000 and year -2811890 09

EDPY XXXXX LIBBARY LIES ENDCLI

where xxx is the name of the Harary you wish to install, in laters we will fall you if a utility requires special Hitraries (which you may eleandy have) so you can copy

This mouth the virus chackes and the doc file reads: make use of the Explode library which is in he lound on the enconflet

Low Res



an this button until the sealed in mast appears. The most commas formal you will meed to one in IFF. This Image handles most after generated Biss, Industries Orient politicuses, from Images, AHAM plotures and 64 bit IFF size. Them is no need to effect their specification in your section of the page and the page and the page and the section of the page and the section in t

The Impulse loader is for 24-bit files created, satura. works with Sculpt Image I lies

(C) The colour controls are ased to process an image that has less loaded into memory. Clicking on the "Rains ting" button will siring up a requestor Sidera cas te repositioned in edjust the continut, Bidphress and includes a colour coreponents of the image. These changes will take effect when the linage is received

Dithering one counterest the effect of having a smell number of one constraint on around the series of the series and consur values are shaded with patterns of the two colours. This is particularly effective is repirated images to make there look more a sture. The petalle handles lets you look, more sail off painties, or add there is the a seal way

The livree effects buttons all perform Image sitclosed a P a reas. The process may be repeated more than size for some we're affects

Colour ho gray in a single effect which removes the cotour internation in foorthat life. The file is their resident in a 18-cotour gray integer. This can be very world if you are placeting for print and the trees on a most a printer at ASDCI controls are the cotour gray things.

The scale liutios cells up an image scaling requester Sider controls one be set to is dicate the percentage scale lactor, or yes may simply order the numbers is the conducts to the right.

The switch button avenue between anteroing and redsping the image with the present sed menitant size of th image displayed towards like top of the acmen. You cannot not the aim of the chainers image, but if the aim yes require lies between her persentage values, you can always parform the scaling operation reces than once. As long as servative side livere phought be an loss to

The image sell not actually be scaled ustil it is rendered so the operation will not be performed immediately – do not be starmed if it seems that sothing has happened when yes If you grow horsel or sholde that you don't really want to

mate your image thms starts wide each \$40 deep, you can't make through the starts wide each \$40 deep, you can sheap a safet the cented option, and all at your scaling appraises will be, rentingly eachigh, cascalled

The transport controller bullets is for use with the Microlitusions Transport Controller P you have the you will already know how to work this feature - 4 you



Execute is the button which will cause the image curconstant fat the dynam which has a cause the trible over rathly in major to the mendered. The tribage self appear conforming to the content tribage settings set in the facroon senting paral. If they are valid, a for some resease at Irrage, can sold be remained in a sharafee inner message.

will appear, explaining the problem. appear, expeasing the present.
If the image is nandered targer than the screen you may
all around it using the cursor keys. Press the meuse Load Format

Image Control:

328 H: 408

The selects suffer controls the rumthe declars surpor caseros the num-bes of calcurs to be used in the liming dust olicit on it in cycle should the options. Most options are fairly covid on, just same non-standard modes are AHAM is a varietien of HAM using 18 bees

ante which allow much greater fiselity dut ante which allow much greater fiselity dut at the total of even more processes power These display modes are trily a solution Times display modes are only a selet for cestain types of image and may sol, work are nome configuration or of Armige. It is been to show a colour rectaining that have about the things—IAAN is a good H E is to him one of the colour type of t

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Low Res

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12. The load button will giving up a standard Bis requestor, if you are to a fire objection, check out by:
Disclosuring all an element button behavior and out the consideration elements that connect leading format for its early you were believe larger and upon an element of the six you were believe larger and upon an element of your entire six you. We see that the control of the six you were believe larger and the control of the six you were believe to the six you.

Batter loading the image can be specified as officer a tightest or a Landange effectively robiting fine image through 80. This can be very useful if preparing an image for printing

The vertical and hartpaufal result

that TAD will a of ellow though this is possible with AGA machines. americs than the image

To quit the program simply click here

** If ye a triand to enjoy the image in coton, it may be worth separating it mut. This ser be done in a variety of different ways is dividing being RDB and CRYS methods. You may see these separations is conjuncted with a DTP participe such as Professional Page.

Gray composed replacement and confused to the transversion of the CRYS of the C percentages can be specified stong with many other

The save requester searce is the same way as the The latest total states request in the states were as the load department, smalling you to save a file enquience on any Arrings devices accurately in the enquience you are added to the enquience you are added statest to the control of the production of the product

consists with the least. The attention is the litmogn in the colour model it was fast remained of 6 g 1 th octoward likepoint and whether the arrent marges was about an example of a series of the colour and the colour and a straight an arrent marge are about a series at a series are conformed to 20 series the often as a 2-4-bit Series of the colour and ADA whether the arrent series the first part of the colour and ADA whether the a 2-4-bit resecution is from the colour and ADA whether the arrent series of a 2-4-bit series of the colour and ADA whether the arrent series of a 2-4-bit series of a 2-4-b

advertegeous is off cases).

AMOS FILES

The Acros tiles as polled on this dies are provided for exwith the Armes instructions in this cronth's special supplehave a copy of Artios or you bought Ets Amige less month. White was gave it away on the cover To use these files places follow the instructions is the supplement, and remember that the pathnerse is them is





The Colour to Dray operator is a solution propering artwork oriening, but sen you tell willow of these pictures as which?

VIRUS CHECKER

Then is nothing to stony to some checkers as this smaller data. Simply exable-cleak in this Victoria feature and exact as the separate clean and exact explaintly one company to the same separate pointly clear copy data that company to the same separate clear as persons only the same separate clear as a persons cleak. We are now facility than a frame some in the same stranger continuous proofs to the same stranger continuous proofs and clear than the same some series.

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ERDISK 57



Get ready for some serious blasting! This month's games disk features two complete missions from Electronic Arts' soon-to-be-released strategic shoot 'em up, Desert Strike. Take to the skies in a state-ofthe-art Apache helicopter, armed to the teeth with deadly Hydra rockets and Hellfire missiles, and blast anything that moves. What more fun could you possibly want?!

f you've always wanted to experience the thnils and spille of a modern military engagement, now's your chuncel Thanks to Electronic Arts, we've got a HUGE playable demo of the brillient strategic shoot 'em up, Desart Strike Already a legend on the Megadrive, the Amiga conversion of the game is an even better blast, receiving a massive 93% and a CU Antiga Superstar when we reviewed it last month, We've got two complete missions taken from the finished game on offer, plus the option to carry on blashing once you've completed your

MAP SCREEN

objectives thanks ammo pick-ups -dguowth benefit pa out the play erea. The game beging with a misno gnilehd note board a navy Ingate A US Intel-Ecance officer (bit of a contradiction

there, methinks!) gives a delated breakdown on your mission objeclives and then the scene shifts to

Controlling a multi-million dollar helicopter isn't as difficult as you might think. The Apache flies at a constant eltitude so you don't have to worry about the ground - atthough

Pressing F10 calls up the map screen from





The parts starts here. Wiggin year joyabak to gel the copter to take of

your wareng Apache helicopter nesting on the launch ped of the frigate By wiggling the joyetick from side to aide the 'copter's enginea can be inggered into life and your craft will slowly rise into the eir And awaaanay you go

high-use buildings and mountain

rangea might cause you some ocoblems Thal's like good news. The bad naws is that the occupying army don't agree

with your crumpaign orders and want to stop you dead in your tracks: They's stop at nothing to Iry and shoot you and your Apacha out

of the sky Fortunelely for you, the Apeche is capable of travelling very fast and turning around quicker than the ave age anti-arcraft gun - If you les I lo Our pleyable damp has been configurad to work with a joystick, although in the final version of the game you'll be able to choose the keyboard or mouse as wall Pushing the joystick forward pitches the Apache in that direction and pulling back on the 'stick puls the 'copter in reverse Likewise, pulling to the left rolls the craft in that direction and pulling to the right causes the 'copter to roll nght Holding down the fire button while moving the joystok to the left or nghi causes the Apache to side slip In the chosen direction.

This isn't a solo mission, though as you have the help of an experienced co-pilot - it's his job to pick up supplies and aim the weapons sys tems. In the final game, you'll be able to choose your co pilot from 10 different crew mumbers. This option has been left out in our demo, but the copliot you've been given is no meen shot and can be counted on to lake out most targets with the minimum of

ABOUT THE APACHE

he Apache helicopter is e machine dedicated to destruction. Packing state-of-the-art weaponry, the Apache is capable of performing

almost any mission - but only if flown correctly Apart from your flying capabilities, and the expertise of your co-pliot, there are three other factors that effect your performance: fuel, emmunition and ermout

The Apache can carry a maximum of 100 units of fuel II the helicopter runs out of fuel I is unable to drive the rotos and falls to the ground like a brick When your funt load is down to about 35 seconds worth, you receive an audible warning eccompanied by



Appet from the missions, there are loss of other ralitary targets to take out.

an pn-screen measage. More fuel can be obtained by picking up fuel barrels. This is done by positioning the Apache directly above the fuel supplies - once this is done, the coofol will release a wach to houst the

MAMUNITION

You have three waspons evailable to your the chain gun, Hydre rockets and Helling misslies. To loggie between the three types of weapon, press the space ber. All three are almed and fired by your co-priol who should target the neurest enemy, so

YOUR QUICKSTART GUIDE TO LOADING DISK 57

WRITE PROTECT YOUR COVERDISK!

make sure your coverdisk is write protected. To do this liganwith tab on the comer so thel you can see through the hole. This accidentally erasing or writing over data by michake. Next, lum

your machine off for a minimum of 10 seconds. This will make sure that your machine is liee of any viruses. Once you've done that, stick your GU Amige coverdisk in the drive and the gemo will automatically boot. What could be simpler?!







leading up the Blok, you'll nee this ocreen.

Everything's working line, so you can relact and leater up for some serious blasting.

TAKING CONTROL



power is 600 units. As the helicopter is hit, this number ooss down When the armour surrounding the Apache becomes so thin as to be life-threatening you receive an audible warn ns vd bewollot pni on-screen message You can obtain replecement power points when you drop WIAs at the

Landing Zone or by pick-Ind up cases of ermout You have access to e cophisticated on-board computer, called into action by pressing F10 (presaing the fire button relums you to the action) You can get

sion target and check the location of resupplies and any enemy gun emplacements.

MAP SCREEN

The map shows the region you're flying In. The Apache is a spinning white cross Cycle through the targets and items by circling on the cycle errows.

STATUS SCREEN This gives a report on your

progress in the campaign Each target has either Active or Destroyed next to it. If it's Active, you must destroy it to finish the campaign MISSION SCREEN

Every target and object on the man has a life in the mission log. The file dis-

played at the mussion log screen our responds to the target or object in the lext box. To view information on another subject, click on the errows. Each mission has definite parameters. Use the mission log to discover what has to be done



all you have to do is punch the fire button. Having a good hit rate depends on the skill of the co-plint.

The chain our fires e continuous stream of bullets of a target but is not perboularly powerful You'll find yourself hanging around all day Inying to desiroy some of the geme's lerger targets. Hydras ere ungurded rockets that explode on impact with hard surleas They follow a straight line from the Apacho until they meet the ground or a target Helifires are laws-guided missies that, once released follow a route to the near-

est larget Because of their destructive capability thry are best used against heavily ermoured engmies. Replacement missiles can be obtained by picking up imme croles. Again, merely position your 'copter over the supplies and your co-pilot will do the rest.

POWER

The Apeche is protected from bullets. shells and missiles by a layer of armour which is measured in power units. The maximum amount of

Information on any mis-YOUR MISSION, SHOULD YOU CHOOSE TO ACCEPT IT...

In all, there are two missions to complete. Each has its own particular dangers, but to make things even more difficult, you've only got one life for both missions.

MISSION ONE

Pal in the rockelt of a fully-armed Apartic builtoeter guitship, your nitimals objective is to prevent presed dictator, General Kilbahe, from decrication a northway burns and holding the West to rensem in our special damo, thin involves asteblishing Alited als acceptably, on that luture missions non take place le relative setaly from ground effent. To de this, it's important to knock out the box reser after which are blabilebind on the

of AAA belleries on well as a number of CHERNI DEL DE SEL properties and knee on typ out for mobile

MISSION TWO Cate you se

two raday alleg. cell up the map point the mirfield Church on your bed e surile to elek



plies Hast, mehr a sole of every gas continuemints so that you don't by in blind and and up setting one to places. The ciritals is very breaily defended so it's best in sense up on the AAA and Hop les batteries and duckuy I ham bufors they can hum ecound and reform fire. News Assistate to refrest - you we only not the one showper, so twening leit and legging II out of the danger zoon is sometimes the seculibit collect. If you take account hits and find you most desperately low, By to the Landing Site and drag off any MIAs. This action will restore part or all of your ermoor points and you can return to liresh the job if possible, make anna you chways

have an MIA on board, as they ent as an insurance pality should you he on the receiving out of a beavy hombardment All the pieces and buildings have to be destroyed below the eleliefd is considered destroyed. If in doubt, obeck the man, if the from still appears on the map, then all lessi een abjuri retical in the all

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Electronics Ltd. Please state your requirement clearly, along with your name, address and telephone numbe

dit or debit card, or it before you purchase. Be

below if you have a

reget The long well is over, the A2000 replacement is here at last.

But how does it shape up against the competition?

The home computer market is hotting up with new releases and price reductions. So it has come to pass that CU have conducted their own consumer research, finding out what all the myriad number of machines have to offer. Now read on...



APITER?

I is easy to get so ted up in your own machine that you don't notice what is going on around it in the marketplace. New developments which may dramatically affect your machine are taking

place every day We thought it might be useful to present a compailson of the machines amed at the home market and see how they performed against each other in key areas. This report is as noblased as it could possibly be and all the results and judgements ere based on the combined knowledge of individue's who have spent years in the marketplace

We will stert off then with the talest amval, the A4000/030 machine just released by Commodole A2000. We will also be heating from other one-stop. enterteinment/leisure mechanes such as the new Atan Falcon and the edocationalists favourite, the Acorn A3010, as well as seeing how the big boys. Apole and IBM, I are

We will be judging the mechines on all aspects of performance, not just the technical excellence of its circuitry. To succeed as a home computer, e. maphine has to be capable of further expansion and must have the support of a large number of third party manniscturers, to provide the scope end choice of peripherals and softwere necessary. The ideal home computer should also be easy to use customise and change every part of his working environment. Instead of just looking at tables and complete solution, which will include the softwere and hardware which can be added to the basic system. The result is we hope, the most neeful

guide to the madem home computer possible Well then get out your banners and flags to cheer on the Amigas, put the half time holders nnder the gall and get cracking on the grand home

Amiga A4000/030

The long wart is over, and finally a spacement for the A2000 steps forward here has been speculation, suspicio as murmurings about how such a launch te ranaged how much would be sacrificed

a amount price point and whether the new nechwar court generate anough support from third marufacturers to make il worthwhile The end it was, as everyone had expected,

wersion of the Amiga 4000, henceforth to ter shown as the A4000/030, which rether mucks gur score boxes. The A4000 sinior is exactly same as the the much loved A4000/040, authorised in October, with the single exception of The processor board. As you may remember from STORY REVIEW OF The A4000, the new Amica somes have a processor slot into which the main processor card is placed. Simply Ihen, the A4000/030 as the A4000 as was with # slightly less

processor card There are two major indvantages to this. Firstly tor Commodore (and indirectly for ue) this is a cheaper way to menufacture machines. The boxes

are churned out and the cards are added later. his means that CBM can almost materiappously switch production rom one type of mechina to another here is an economy of scale

resolved too resulting in reduced costs for lew components, packaging and so on. The result, is cheaper The other main advantage, which

a a bonus for us rather than thom, is that the A4000/030 is completely sardware compatible with its big brother That means no competibility problems. It also makes the upgrade path e lot easer. All that would be required to gain the full power of the 4000/040 would be to whip out the 030 card and replece it. It probably won the long before some suppliers begin operating a 'swapanop' service for upgraders

SO WHAT DOES IT

nem leatures of the A4000/030 are the same as the 040 version, the only difference being speed. The new mechine has all the custom ships associated with the AGA chipset, giving it all the new screen modes, including super high resolution modes, and an extended colour palette. This allows up to 256 colours in any screen mode, val still supports the old HAM mode (which can now operate on a high-ses screen)

il also sports en IDE controller interface with an installed IDE hard disk There is still no SCSI option evereble bul you can elways buy e controller card to fit in one of the four Zorro

III expansion ports. The machine comes with en installed version of Workbrinch 3 (all six disks of it), exectly the same as the A1200 HD. There are a few updates to the Workbench,

but most of them deal with support for the AGA chipsel and a few tweeks here and there



WHY NOW?

Some people may fe wondering why it is that, since there is no new lechnology on the A4000/006, it was not selected before now a delare the "640 service parkage." Wall, there are a number of resecut les like

Historically Commoders have never been very good at ailling on new lack-rainpy - they lide if to account carning mocky as soon ac possibile. Since the limiting factor in the design span of the machine was more than filety the male fourd, the nea with all the custom chips, and not the proceasor stours. It is very likely that when it was fically reade las lenneh alltas varsion could have been che can wouldn't have been entities to release on 1036 version

A lain! Ineach would have been a bit on the brave alde If it hard enough convincing propin that they need one of al althought models. At the time the A1280 was done to se laudebed too. Another mid-rator muthing would have been

Anolitor factor may have been the desire to make some the product was right and want out at the right price. To till the spines of the A2000 is a full order. The A3000 cales were inclanificant compared to these of the A2000 the dedicated anthusiast. With the market new in units a serie al Bur, mustly son in the full to enfocu at PCs one Macs. hear dealstone require a lot of contemptation

Cynics may claim that Commediate just wented to steam up with the higher proped mechanic believe introducing a changes alternative - but here at CII Towers we re not ove ics, we protes the facer 'conflicte'

and a modern. Whet more do you need? There is no shortage of cards for the Amice that do everything from add a tape streamer to driving Computer Numeric Control milling machines. If would be hard to come up with any hardware device which cannot be connected to the Amiga at all (although you may have to write

your own driver software)

CONCLUSION The A4000/030 is a worthy supessor to the A2000

In real terms the page of the facules has come down considerably since 1987. The processing power and the graphics ability of the 4000/030 really show up other '030 machines.

Price £999. Supplier: Indi Direct, 0543 419999



below the psychologically big £1000. the A4000/030 lines up quite impres sively against the likes of the Falcon.

time to put if through rigorous tests : outtelves yet it comes in all around twice the

USER INTERFACE

Warkbench 3 is included with the new machine It's just as well that there is a hard drive to put it on, because the six disks are fairly unwaldy. Parhaps it is time that

Commodore had a think about making a bioger ROM. The rest of the interface is as we all remem ber it, with a few extended preferences to take adventage of The new AGA screen modes Nothing new mally

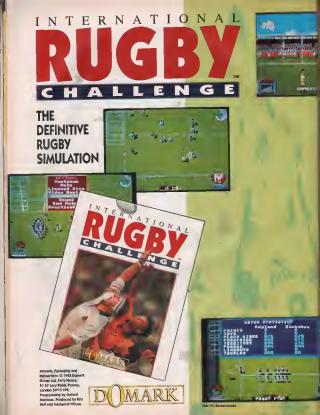
SOFTWARE

If remains in he seen how compalible in larms of software this new machine will be ill should run everything that will run on the A4000/040, and probably a lew more things. The software which directly supports the AGA hardware is rere at the moment. The only major packages that handle the new screen modes are ADPro. Personal Paint and DPaint IV

EXPANDABILITY Four Zorrolll slots (which are the

multiplexed varsion of the old Zarroll slot) provide enough room lor a SCSI card, a graphics card





com A3010

not an Amioa, in soite of the Acom a propensity to label Array with A all the beginning a of of trouble in the past, especially wo major differences separating

PRICE/POWER of subscribing either to the Intel of camps, Acom have designed their own More then that, they have designed a s what is known as a RISC

Reduced Instruction Set Computer), has rather ellot of advantages over down to a trade off between speed operational complexity. Acoin's man forsakes the higher level innotions as MUL libe 16 bil multiplication nortugaxa Insigiffa arom a rol (notes with ell Instructions taking one cycle.

Hours successers been his may all first seem like a retrograde but it actually applies modern semiproductor design to a simpler set of reductions as may have been used in the any 80s. The result is e chip which executes resuctions a great deal faster than you would The ARM2 clocks in all szound 8 MIPS properted to eround 7.5 MIPs of an AI 200 runong a 68030 processor. The added advantage is the ABM chip is cheaper to manufacture then

Atready major menutacturers ench as Apple and IBM have become interested in RISC erchitecture. Accorn could make a tidy living from just censing production, but they have a commitment

to the education merket The second factor which sets the A3010 miles part from the other machines under review is the

USER INTERFACE

Unifice most personal comput ers, no part of the system. software comes on disk, it is all contained in a 2Mb ROM This not only includes all the software for the Archimedes WIMP system, but also ell the printer drivers, tents and libienes that Arriga neers seem to be torever shuffling between liappies This results in e machine

heving to resort to





the disk drive. A host of simple applications are also supplied on ROM, including a word proces. sor and paint peckage. This

means that a file formal standard is set not by convention, but by a compatibility necessity, force ing software houses to support the packages bundled in the ROM. The RISC OS3 operating system does multitask, ellowing many applications to be active. Memory ellocations can be eltered by calling up the task menagement window, which allows memory resources to be essigned at the dick of a button. Doe to tool and library eccess to ROM is larger emount of the System's RAM as available for applications

SOFTWARE SUPPORT

There is more softwere than you might think aveil

amount of it is educational software or, their dieaded word edutainment, but there are also accounts packages, DTP systems, delabases. multimedia applications. Acom themselves pro duce a catelogne of currently available herdware and software - a 170-page A4 directory covering every product known to them

The gemes scene on the Auchimedes is telriv skm, although this may change as Knsaks, better known for their Amige biles, are undertaking the task of doing Archi conversions. Titles such as Lotus may be only the tip of the iceberg

EXPANDABILITY

Only the higher models of the Acom senes, those almed at business user or school bleservers. incinde e SCSI interfece but all models do have en expansion port.

Many familiar expansions are available - scanners, SCSI ports. MIDI adeptors, sound samplers end even genlocks. The price componsons vary agensi their Amiga counterparts. MIDI interfaces are around £70, ganlocks around £250, but a

There is a more or less equal range of devices evailable, but there is perhaps not the same amount of choice - width not depth in the Archimedes market

SCSI adaptor is only £99 CONCLUSION

A fast and impressively capable machine, but somewhat lacking in sipport. Acom do a very good marketing job with their machine and support their users well, something which perhaps should be taken on board by compenies more usually mentioned in this magazine For education this machine is the only senons

chaice, but until male interest is shown by third party companies in developing more software end hardware it is not going to be as well supported as the mejority of users like their platforms to be. An excellent choice for those wishing to study at home though

Price: £499 Contect: Acoin Computers, 0223



Amiga A1200

he Cemmodera Amiga A1200 sneaked into sheps with hardly a whisper, and yet it seems destined to be the top selling home compulsi lei years to come. Although it may seem to be nothing more adventurons than on A600 out lenna the addition of a namena keypad.

lechnically it's a great lesp forward for the Arriga Fears that the all enging, all denoing AGA chipsel was going le be imited le the mere high and A4000 series were proved unfounded, as the A1200 offers the next generation leatures and a reasonably last CPU at a bargain price

PRICE/POWER

Looking solely at the Amiga s CPU can semetimes give a false impression of what is going on under that white plastic extenor. For example, ethough the A1200 sports a 14MHz 68020, the curilem chips which govern the video and seund cupabilities help boost the everall performance considerably. As milesult the A1200 compares very favenrably with similarly priced 80286 and

Graphically, the A1200 is streets shead of PCs as it effers videe modes which can provide more colours and more

detail - without resortextra video card. The Excellent sides modes with effers modes as high as 256 colours from a 16 millien coleur palette (like SVGA) is abyong cells lud special HAM8 mode which offers pseudo-Legiop tid 81 rly one Unadage expansion A1200 can operate

Althench most lans were disappointed that the new razion made ne improvements to the audio capabilities -leur channels of 8 bit PCM sound - The Amige can still outplity

Furthermere, Ibe

directly with a lelevi

recorder. Te do this

on most other com-

puters requires costly

sien set or videe

extra herdware.

most add en cards lei the PC Enriharmers. Commodote ara knewn te be looking to make a DSP evailable has the Amiga, and although it is not certain whether the A1200 will benefit, the Inture is looking bright.

USER INTERFACE

While other systems have struggled with commend line interfaces. The Amiga has slways had the Werkbench as an integral part of its make up Over the years it has grown from a tacky looking erange and blue lumbering beest into a very svelte gray and blue masterpiece et 3D bavel-leok

Probably the only mess-market operating sys-Iom which truly multi-tasks, the Werkbench is an amazing piece of softwere. All Amige application packages take advantage of the platform to provide on casy to use, infinitely adjustable and very stable user interface. Advanced leatures include

the Interprocess language ARexx, which can link sev eral multitesking programs

Logether Later versions will include 'retargetable graphics to provide semmliss snaport lei high perfor-

mance video cards SUPPORT

Recourse of the way I has been marketed in this conn-Iry. The Amigs is seen first and leramest as a games muchine - and this means there is a huge range of bloth quality leisure titles aveilable The Arriga's

herdware can handle last graphics and digitised sound with ease, allhough it is lar to say that the best

has yel to come when A1200/A4000 only titles start to accord Business softwere is nell quite so common, although the namber of word processing and desktep publishing packages ere well inte denblu liennes. The better DTP packages effer all the legitors of their non Amiga confirmaris, with the

added advantage of running on Werkbench. Video and graphics support is of a very high standard, with many professional quality image rendening, precessing end animatien packages available. The Amiga probably handles Presentation graphics better than any other com-

pular can There are an increasing number of masic sequencing programs - es well as 8 and 16 bil sound sampling packages - slarting to appear which when combined with the excellent video sngport makes the Amige 1200 the most accessble multimedia machine vet

EXPANDABILITY

One to the incredible pepulanty of the A500, there are many Amica pengherels designed to Interface directly with the sensi, parallel and videe ports el

the A1200 - including MIDI interfaces, frend ecan ners, digdisers and genlocks

The Al 200 elso sports e PCMCIA slot, and ethough at the mement peripherals are limited to 2Mb et 4Mb RAM expensions, more alle promises As PCMCIA is a cross-platform standard cards developed for either machines shenid work within modification. Underneath the A1200 a 'trap door is present which can be used to add more explicihardware. At the time of writing, a memery/co are cessor beard and a 68030 eccelerator card are available, with a SCSI interface imminent.

An IDE hard drive can be connected directly to the Amiga, and ether internal connections offer the prospect el yel more memery expansion. Indi-Direct can supply machines with pre-installed hard disks without invalidating the WANG warrants

CONCLUSION

With the AGA chasel, this new Amign is said to many to be destined to become the Commodore 64 of the 90s. Building on the large amount of Amiga software already available, superb video games will only scratch the surface of its potential

Price: £399 Contact: Indi Direct 0543 419998





Atari Falcon

Felcon is now the flagship of the ST As with the STE, it seems that Alam amen a long arms to catch up with the rest in

hardware performence. The Felcon is Iha actions in the ST range to use the Motorole

modore launched the A4000 with its much or probably be some third party ecorderal

wing most people are concerned with is

PRICE/PERFORMANCE

s where the Atau suffers badly. It appears

spied 68030. The full benefit of the processor is walked because the mamory is organised in

the 030 is only a 18MHz variant, with a performance claimed at 3.84 MIPs. This does not pare exceptionally well with the 2 I MIPs of ... A1200 A depent '030 processor should be around ? MIPs. The gep between the acon's performance and the A1200 could be narrower, considering the letter's 32 bit wassigned custom DMA phios-

an

tial

USER INTERFACE

The Falcon still struggles on with TOS. This is the Multitasking vereron of TOS, curryingly called MulliDoe which provides similar leafures to ArrigaDOS Though

the old TOS, and in meny respects is more powerful than althor Windows on the IBM PC or System 7.0 on the Apple machines, but still sticks principles Task switch ing is not as easy as on the Arriga and task pnorthes are decided

by MultiDos alone goas up to Super VGA standard - 640 x 480 in 256 colours This is obviously

less than the Amigas are capable of, but is of the Urider test



SOFTWARE SUPPORT

Although there is plenty ol ST software available

this new machine, thera cant packages released which will teke edvan

much better

TIMES OF THE ESTABLES for precessor sleek speed

lool up again just to support this new machine unless it starts saling in large numbers

CONCLUSION

The Falcon is certainly a nice machine. It is the only home computer with a DSP chip as standard which could win it a large number of friends in the

The first of these is the price. Its performance doesn't match up to the other contenders in the pince range, even if if does have the DSP. It is

rathar sity to sell the machine in e 1Mb configuration. In this amount of memory it is impossible to multitask effectively or make any significent

sons for many Atail owners to upgrada las musicians end it does have a rather large software library to build

owners to upgrade Perhaps the real testing ground for the Felcon will be in the DSP

Dograde market II software and cheaply enough a new wave of Atans may appear

in music studios up and down the country The hemendous advertisge of the DSP chip could act together and produce a DSP card for the A4000s (although this would phynnisky suffer the sama price problems when competing against

In the end the Falcon is not a complete solution, you would raise more then the basic model to be able to achieve anything useful (rether es tha A1200 really needs a hard drive if you want to do

enything bul pley games), so the prospoint is a lit-Price: £599/£999 4Mb Contact: Silice. 081 309 1111

lauriched (end like A1200 and like A4000)

EXPANDABILITY With a SCSI port as standard there is no problem

in adding external storage devices such as hard also sports e MIDI port (as did all previous STe) and e LocalTalk compatible LAN port. There is no

There is even a special DSP port, which allows the DSP direct access to the outside world. One of be e high speed modern. As most of the modern function would be hendled by the DSP, such a unit would be reletively cheap. A lex device would be

interesting to see what the third party manufactur Unfortunately for the music ambitions of the machine at £999 for the 4Mb version (which is the minimum needed to use the DSP property) it is already more expensive then many dedicated samplers and affects boxes

The Felcon will support an additional 68981/2

The only thing really going for the Felcon is the

FPU, but egain this will be clocked et I 6MHz, a

DSP chip. The DSP is a Digital Signal Processor

which is capable of 18 MIPs of operation at a

high quality audio work, but can elso halp with

video and high speed communications. If will be

boards for the A1200 era already running at

S0MHz

very pedestrian speed, especially since the co-pro-

The Falcon will have the same standard of

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BM PC compatible computers

o excess committeding as The and bard drive as a com-

CONS

 years the IBM compatible Personal amputer (or PC) has been confined to "uge duncky boxes and running word promaters and spreadsheets. Recently fills has market to change, with more and more home aurs buying PCs, templed by the dramatic plum in prices. So far this year, more than 300,000. 4 New been sold

Hundreds of menufacturers produce PCs and good at it. Alf PCs use CPUs developed by or e compatible chip from a competitor) and the most common are the 80286, the 80386 and to 90485. With the dipp in prices and evermcreesing need for more processor

no-one buys a 286 thesa Tays, and no-one with sense buys a

SET UP

an

me

A typical PC sol up includes: The PU with 4Mb of RAM in a desk lon or lower configuration case, a sepa see keyboard, a lerge herd disk a 5 inch high density lloppy drive, an SVGA video card and monitor, a mouse and a copy of MS DOS and

For a 486-based computer this set up can be bought for just under E1000, and for a 386 under £800 Portable PCs are also available which offer the same facilities (minus some expansion) with e mono LCD or Plasme display for about the same

PRICE/POWER

The better 386s and the 486 range of chips proede a formidable amount of rew processing power -but they need to as they have fittle in the way of 00-processors to help them

The PC was originally designed to have no more than 640K of RAM, and even today this limit can cause problems adding more memory to a PC requires extended memory expanded memory end high

The SVGA video cards provide excellent displays, but for photo-realistic results en extra video card will be needed. A monitor is considered a standard requirement, and there is no provision for connecting the video signal to a TV or video

Sound is limited to simple beeps although sound cards (such es AdLib compatible syslams) are themselves now a standard

USER INTERFACE

PCs use MS DOS - a command line interface of considerable power and complexity. In order to alleviate this bemer to userInendiness, Microsoft developed Windows Now the law suits have ried down, it's sale for me to tell you that Windows ie just like the WIMP system known and enjoyed by Mac and Amiga

pwness - and just about every computer Running Windows on a PC requires at lenst a 386 with 4Mb of RAM to do it. properly, end e large chunk of hard disk space. Using Windows with processor intensive operations is not recommended, as Windows itself requires a lerge system overhead

Windows runs on for of MS DOS, and is therefore seither startkno'v fasi nor able to offer proper mulitarsking.

GREAT EXPECTATIONS

A new version of Windows which runs on the hardwere directly has been coming 'maf soon now' for guite some time, but it is unclear exactly how popular if will become OS/2 was supposed to revolutionise the PC world, and eithough it is a remarkable operation system, it has so let lailed to attract users in any

Software is the PC's forte, for if you can't get a program to do what you want on a PC then the program hasn't been written for any computer. All manner of senous software is available, atthough the biggest growth area has been lessure titles Most, if not alt, the games packages available to:

the Amiga are also available for the PC - check out the displays in your local softwere shop. Audio and video applications are also avail

able, but the PC stiff has to succeed in the world of multimedie. This is meinly due to the fack of standards in video and eudio herdware, but this could be solved soon. Multimedia 'workstations are evallable as complete safutions, but they land to

EXPANDABILITY

PCs come with sockets for expansion cards as standard, and there are many weys to teke edventage of them. Moderns, hard cards, video cards. sound cards, lax cards - e flick through e PC mag will start your credit card pounding Cereful choice of the PC of the outset will also

allow the central CPU to be upgraded, either by moving up to a 486 or Improving from an SX chip to a DX

CONCLUSION

The PC will be with us for years to come, with reg ulai processor up-dates and software to metch.

simply because it is the most popular computer on the planet Unfortunately the glad to be grey set also leeve themselves open to explore tion by the software houses who charge relicutous sums of money for the applications software. This is in some wave. understandable as program ming any adventurous application on the PC means

archaic system architecture Conservative if not downnghf bonng, PCs are not easy machines to use. Their user interface is clumsy, and in the constant search for 'backward' compatibility penulnely new end exceing software and hardwere products are, unfortunalely, few and lai between

wading through levels of

Price: electing around \$800. for 386 with VGA Conlact: Verlous - buy a copy of PC Review for more information.



ere!

ople Magintosh Classic II

recent price reductions in Apple hardware home market. There are a lew medels which ers within the scope of this review. Including the lower model in the Performs series and the LC II

as well as the Glassic Macintosh have always seen themselves as innovators, directly threatening IBM in their estounding ad, directed by Ridley Scott, which ared only once at half time in the Superbowl - the most expensive TV ad elet anywhere.

in the wend The Ihreal was made - Find cul why for yeur 1984 won't be like 1984 but Apple have failed to live up to their that the Macintosh is the only serieue rival to the IBM PC at the business side of the market, it still has a fairly

Traditionally though, the MacIntosh is the easiest mechine to use. The mouse only has one button, and the user enly needs one braincell to know when to press it.



Macintosh equipment has elso been traditionally overpriced. Their is nel a charge which is easy to justify any more. Prices have fallen, and systems have become more useful, but speed is still a





Explaints a to support Con be breakniful

- Francis Law Ster Belleville Ster Applications such as Quark Xareas have made the Mac Very

The Macritosh Classic II is an '030 besid machine, though you could be looted into Inlinking it contained a plain 68000 phip. The main probexpected to do almost everything. There are a lew custom chips, but nothing to the level of the graph ics chips on the Amiga and Felcon

Another preblem for the Mac is that most of the system software must be steed in RAM Particularly with System 7, large chunks of memory sie laken up with lonts and system extensions - the lifes and utilities required to run The OS property. A typical memory overhead le around 1.3 Mo - a larry large overhead on a machine which comes with enly 2Mb as standard

USER INTERFACE

The Mac is widely halled as the idial-probl machine, it's quije true that even tetrid techno phebrs can pick up the basics in a matter of hours. rather than days

That doesn't mean there aren't some problems though Many uters leel restricted by the tyrannicel Wimp system. Unlike the PC and Amiga, it is impossible to play around with files in the same way. You can't access files without using an appli

cation. All files are tied to the applications which greeted them and it can be a problem ewapping information between two programs. It is also a bit slow, especially screen updates

SOFTWARE SUPPORT

ware to make them work

EXPANDABILITY

CONCLUSION

Macs do come with a variety of

Thate is about as much software averable for the Macintosh as there is for the IBM PC. Mest of the software lends to be in the riche areas - word wate is available. There is a games

scene on the Mac, although It is not as probled as even the PC market Public Domain software too Unlertunately most of the soft ware tends to be rather expensive

AppleTalk and SCSI ports. Unfortunalisis expan

sions such as extra memory extre lioppy drives

accelerators are all the sorts of expansion which

has limited expansion bus capabilities, but the LC model is capable at handling almost anything you

lurets. What this means le the end user is that every peripheral for the Mac is appreximately 50%

more expensive than it would be on any other

The Mac is very much a user's machine - e computer for people whe don't have te understand

There is little support for more carebral pursues

such as, shock, programming. Ne, I'm stretd not

whal is geing on, and moreever, don't want le

The dealer-install policy has rather put off third party manufacturers so most expansions are from Apple themselves or from closely linked manufac

has to be carned out by dealers. The Classe II

can throw at it - It you have the money

THE END

Well there you have it. That's what we make of the home computer market, but I m sure every person will have his own ideas. The judgements adjustly used these machines not just by going on the hype that is chumed out by various tac arryone can hope let. There is no scientific test cassor spend readings are inclined to give

At the end of the day mest machines seem to do better than all the ethers in one particular area. The Mac is the gasiest le use, the lot of software support and the Falcen has a nice

The Amiga itself seems to be the most ball anced all round machine. It is excellent let playing games, there is a reasonable amount of hardware and software available of sensible that what people really need in a home computer

Apple have decided that you don't want to do that of course. The Mac is very much a computer fee the 90s - the 'nanny state' rendered in stroon, Oh and the sound is temble too Pilce: £799 Contact: Apple UK, 081 569 1199

The machines compared

THE HIGHING			Atan Falcan	(Brit 256	Japle Nac	Archimada
	Amiga A1200	Amiga A4839	Right Passan	175		
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Burdsette mp.					7.0	9.4
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cap - capability sup = suspect





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definitive review column of eny Amiga magezine.

38 FIRST IMPRESSIONS

Yau some it, you'll fied It here in the most comprehensive preview section of any Amiga mag. We detail the hottest games coming your way this year!

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It's crystal ball gazing time again as CU Amiga casts back the mists of time and takes a peek at the games you'll be playing later this year. If you want to know what's hot and what's rot, read on...

Twice a year most of the software industry big-wige get together for a weekend of self-congretulatory back-alsoping and drinking each other under the table. All this happens at the European Computer Trade Show, an event that attracts software houses from around the world, and which acts as a showcase for all the latest computer and console games. As usual, the CU Amigs team were out in torce, freeloading like there was no tomorrow and walking off with as many freeblee as our eweaty little paws could carry. But ell this hard work ween t tor nothing(i), as in between hangovers and drinking copious amounts of sicohol, we managed to get the low down on all the top games you can expect to see later this year

BENEATH THE STEEL SKY

Airendy being touted as possible rivals to Lucasfilm and Stema in the oraphic edventore stekes, Hulfbased Revolution Software are busy putting the finishing touches to their latest extravagenza. After the succass of Lure of the Temptress last summer expectations are high that the new adventure will establish Revolution even further in the minds and wallets of the games buying

Set in the far future, Beneath the Steel Sky has a dietnot Blade Runner feel to it reflected in the tow ening metropolis where much of the ection takes place. Huge multine tional conglomerates now govern the world and much of the planet has been reduced to a polluted wastetend in the quest for dwindling rescuress Taking on the guise of a

rabel leader and taken pasoner by one of the ruling conglomerates It's up to you to escape from their clutches and disable the governing supercomputer that controls every aspect of city life. The Virtual Theatre

ennine that was used to drive Lurs has been significantly improved for its second outing. and the geme advences in a more

aubtie manner. Cherecters not only react to global changes but also progress on a personal basia. For Instance If you slag someone off they might then relate the incident to e friend who would also take a dislike

Elaborete 'puzzle trees' tako account of virtuelly any action that a player may make in the game and this feature has allowed Revolution to include multiple storylines which aventually converge on each other as the game reaches e climax

It you read our three page work in-progress a couple of months ago. you'll already have on inkling about now good this game is going to be Revolution are confident they've got a Monkey (sland 2 bester here and from what we've seen so far, we'd tend to seres



MPRESSIONS

UROPEAN COM

STAR TREK: 25TH ANNIVERSARY

m probably showing my age here. but I remember the very first Ilms that Star Trek was shown on the Beets I was about four years old and was absolutely gob-smacked. Even today the program is still light-years shead of most TV science fiction and now Trakkras everywhere are going to get the chance to Iry their and at the home computer game of

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It may have taken them abso lutely yonks and yonks, but the US-based Interplay have finally got around to producing an Amroa vor-PC game. And it looks like an absothe corker! It's so true to the original 1960s TV show that at times it's just

Min watching a real-life episode Produced and designed in consutation with Peramount, the game spiri into two distinct parts: e 3D space combat simulator and a sense of graphic adventures. The 3D combal sequences place you on the bridge of the USS Enterprise and gut you in control of the photon for pedoes and phaser banks as you engage anomy vessels - usually Klingons or Romulens Once you've successfully bettled your way through that lot, it a time for the planel-bound adventures to begin as a landing party beams down to myssigale some allen menace, dis-Ireas signal or whelever. As usual,

officer (who you just know is going

the lending party consists of Kirk,

Spock and Bones plus one security

to pop it very shortly!) Their advanlures are roon-controlled and you can lilp between all four characters.

at the click of a mause button. Learning from the mistakes of the PC geme, the camepley has been tweeked and improved upon as some of the anginal puzzles were considered to be a little too lough There's also e hendy option to skip the 3D combet sequences if you just want to get stuck into the adventure so that's a definite improvement. too On the down side, the Amiga conversion has to make do with 64oclour hall brite mode as opposed to the PC's 256 colours, and loading times might be a little langer, espa cially on the bog-standard A500 Still, there's talk of an A1200-speclic version in the not too distant

machine will be able to enjoy the best of both

The episodic nature of the game is reflected right down to the openmo credits that begin each mstal ment, and there's even en epiloque

to each adventure (where McCov and Kirk stand around, make a bad jake or two and look knowingly all each other while they take the place out of Spock). This just has to be one of the most important Amega releases this year and I'd be very surprised if it didn't camp out in the number one epot for weeks on and Watch out for a cover disk soon!



future, so owners of their perticular SOCCER KID

When we lirst heard about this game we thought it was a bit of a joke. After combine the ercade pleyability of a looty sim with a platform romp? Fortunalely, Kriszlis look like they're going to pull this off as the seemingly unpleyable game has metamorphosed into what could be one of the top 10 games of

Work began on Soccer Kid way back in February 1992 and it's only now that the Phishing touches ere being put to the game. Based around the 1994 World Cup, the multi-level lock'r/jump game involves a romp eround the world as the impish young star attempts to collect six proces of the missing World Cup and thus save the competition from rum. The lookball med hero has a football constantly at his feet, which he can use to clobber any of the approaching resilies as well as pick up some of the many bonuses lying around each level The Kid has an amezmo number of trick shots at his disposal - al the last count there were 15 - and it's this type of liexibility that makes the game such a joy to play



At the stab of a fire button, you can lob the ball straight up into the sir, perform an overhead broycle kick, or smash the belt off the screen There are planty more where the little lot came from, too, as our rolund hero can also head the ball balance or rump on it for extra height, and fire off a shot with enough spin to make the balt. return to his fact

At the start of the came, there's a nifty trainer option so that new players can become accustomed to the control system. This is sell in the Kird's backyard and invelves negotiating an obalacle-packed ocurse where all the skille of the game come into play in the main. game, there are an levels on offer, each subdivided mig Three stages, Each level reset in a perticular country and each slage has a theme relevant to that ocuriry will have a special skinhead soccer hooligan stage when the action switches to good of Birehtyl

With the usual end-of-level guardiana and some excellent m-game graphics and sound effects, this is probably one game that deserves all the hype it gets Watch out for a ocvardesk and review agon!

SHOWTIME

Here's your at-aglance guide to all the latest software releases...

BLACK LEGEND

Here's a new series you won't have beard of below, but one which will ness become very terrifier terined. Besed in Switzerland al with niffices throughout Northers. ecops, fals new politicare trocas hos no mbillions target of releasing 35 (1990 TY on gi the oper status in the transmiss, ingling Alexinez, Zens, Konious (the en thoi ended Protracker), Static Gytes, ingue and Frazion. Mony of their telet resulting failling, so watch out live in ya wask in-acoptano la na mpiorising

form seame to be no elegater this lutely bearing. In the seaf few emerits, respect to see Goerf, Apacalypse, Security the Steet Sky, Doon 2, Downer Faddarund se A1288 varsion of Lands O' Land, They're in numourud to here scraped op The sylfin illim licenses tis Roppy refesse and pant on exclusion deel with Accinin and go to convert motte of the best quadring titles make the Amige. Check out CU NEWS for more lists on that much

OCEAN



eun hoge 12-Wet dinetas: ding their exclusive person selte. All ilelberg'n benod-ke-be-big dinesake evin. Netscelly, the CU team were in teen good Sew bome as well as in b sy'ne neleasing more Amige-es hen even kedere. With both Un ters and EA Promise League w di way iste the notherope, the suchester-based firm one currently reis 'Ankhor, a Letus-style reces whi has Death Anne 2000 took like a pas

CANNON FODDER

This is probably best described as a cross between Lerrythings and a paintball game. Al your disposal ere a small army of more than 300 conacripts, all with their own nalque ebildies and special skills. After selecting a plateon of crack troops from those on offer, you then have In choose to send them on one of 24 separete missions sel across five different types of terrain Missions typically involve rescuing or killing people destroying Installations and



oneutons Each mission regulres a different nombes ol men to complete it. together with special weapons and equipment. After successfully complet managed to aurvive move up In rank so that in the next mission

they'll be more powerful. The game's being designed and coded by none other than Sensible Software, so you can expect more Then e lew leughs along the way

The mouse controls have been made es simple as possible, with the left button pontrolling the direction of the men and the right button the rate and direction of fire (in a similar lashion to Welker) Within each mis such them are ventus tasks which have to be completed and this often involven spit-



ling the men up into smaller sub groups Al the moment, the tiny volley of nhots, but in the finished geme it's envisaged that there will be a mini-assenal of your troops' disposal including missile inunchers

As you can probably lell there's e lan bil of strategy involved here, but don't worry, as there's an awini lot to shoot all tool in fact, this is Watch out to: Cannon Fodder in November.

APOCALYPSE

VIRGIN

This game's been around for longer then we care to remember and was originally commissioned by the now defand Mirrorach Since than, the original programming team, Strangeways, have handed over the project to Muscle Games who have spent the last year rownling the pode and tweaking the gameplay. Obviously influenced by Electronic Arts' Desert Strike and aging coin-op classuc. Chaptifler, Apocalypse puts you in control of a high-tech helicopies as you attempt to blast enything their moves! Equipped with feel-seeking missiles, rockets and fusbornbs (which can be replenished from strategically placed smmo dumps), you have to guide the 'copter over a horizontally-scrotting landscepe taking out enemy out posts, vehicles, cannons, soldiers and even your own POWs Unlike Desert Strike, you can actnuly fill your own

men with lead and see them squam as the bullets rip through their liesh. This is more like it! Graphically, the came is stunning and wonkin'll look

out of place on a com-op. The best bit, though, is andoubledly the sound. There's Interelly a sample los everything that happens on screen, from the rattle of heavy machine gun fire and multi-layered explosions to the screams of the shot up troops. Watch out for a Initi review in a couple of months

ODYSSEY

Here's the best reeson yel to invest In an A12001 Droital Image Design, such as RoboCop 3, Epic and F-29 Received are concentrating all their machine and ent planning to unleast two A1200-specific dries in

the latter hell of the year First to reach the softwere shelves will be Colyssey, the sonped-up sequel to their space combat blest 'em up. Enic Fans of the first game will be pleased to learn that the new offering takes place ecross an entire solar system which features seven plenets, three moons, estaroid belts, a spaceship graveyard and, yes,



Alming for a cross between Wing Commander and Eite, the game is not an official segnal to Epic, elthough the action in sel 90 years on from the original game. "We're undecided whether to promote the game as Epic 2," mentions DID's

Martin Kenwright. Allhough we were pleased with the way. Enic lumed out, the new game has been radically overhauled and is much more open ended Odyssey lats you pick and chaose your own mis signs rether than following the linear pattern we imposed on the Itist came A

typical game could involve up to 80 separate missions!" With more than 300 individually con Irolled craft light sonroud cockpil. with injuries weapon selection and control, plus some spectecular texbured polygons for thei 3D feet, this ane could be big



as they've redefined the shoot up and bast em up genias, so earn 17 are alming to do the same up down racers. Il you can womber such starting efforts as Sport Sport on the ST or Altro on Arraga, then you're probably som going under the monicker of



Overdrive, the new game lets you get behind the wheel of five different car types including 4x4, Formula One, Buggy, Soorts and

an-Sports care. We ere also promised live aliferent types of ternon to race across, made up of comule One Irecks, a Dual Ireck, a 444 arena, a City circuit and en los Mountain course. Although the game an option to serial link two muchiness for a head-on clash with a maze scroling, there will be the usual on track pick-ups and bonuses plus lots of testing track designs to push your

INFERNO OCEAN

Digital Image's second game to e flight sim Taking over from where F-29 Retaketor left off. Infamo provinces to be an even better blast Set in the near future, a special United Nations Repid Remponse team has been set up to keep the peace Taking on the puise of the new are



force's top flybay you have a choice of at least three alress at your disposal, the experime EFA an F22 and an F117A Steath Fighter in all there will be eight the atres of operations, including Africa, Europe, South East Asia and tha Middle East with more than 200 missions to undertake. Yes, you heard ma. TWO HUNDRED separate missional The game begins with a flight liaining school where you can lamilianse yourself with each plane a flight dynamics and, once you've successfully completed your training, it's into the real world for some senous peace keeping. Missions are selected by interacting with news headlines - if you think a situation is getting out of control, send in the troops! To give you some idea how huge the game is, DID ctalm to have mapped 1/40th of the world's surface in 3D. It's looking terrific. enthuses DID s lop man, Merbn Kenwright. 'We're aiming for complete diversity in the missions a player has to undertake. For instance, one minute you'll be lending sensi support to a helicopter learn as they attempt to rescue hostages from a terronal base, and the next you'll be involved in a one-on-one dog-fight. We re packing everything into this one-end we reckon



you'll be slunned by the 3D graphics we're work ing on.' To add even more authenticity to the game, DID have also drafted in a lop aeronau tical angineer from Princeton University to help with the game's flight dyrlamics ETA: Octobar (but if we know DID, that's probably October 1995)



elt coin-up le éls own right. Yhose 'Soo on trey bit the Amigu. At Tony Creether's sequel to Cay erd to, place a data slink for I erne competer in Ma the Amiga and, furt in time to: Ci tim destined to he absolutely to to Sim City, the imaginatively II

TEAM 17

n 17 mand the ECTS to nanage that they are observed by the law and Amiga rating their offects on the Al 200. Making the associatement, Team 17 spokesmen, Martyn Brewe, naphiosal e'ce dose all we can with the



bare wise left to ge, so brown now se you'll be reading come multy increased in the read few months,' So the year, (ask out ter as assenced A125) persion of Eady Blevs, pice sequely to hath Alice Breed and Project K. Can't be

SUPERVISION

taxed arenati Steva Jack ure games bonso os FIST luft-orientaind product for the CDTV will ordayGoosi the bast-adling Lavers' to whom it comes to for the

DONK!

GLOBAL SOFTWARE

just a bit too mervellous for the likes of WH Smith and other software dis-Inbutors, so The Hidden's first commercial release gets an unex pected name change to Donkt Since we covered the game back in our February issue, Things have moved on apace. The game is set in the future when duck-kind have evolved



Is beyond their present day state and the star of the show is a mutant Samural duck. Having studied avery known martial art, the aponymous Donk/has to traverse 112 (I) levels of platform tomfoolery in his quest to save the universe. This is done by collecting power crystals which are scattered around each level There are also six perts of a key that need to be collected, too which, when pieced logalher, will grant you entrance to the castle of your arch

> blame us, we didn't write this tweddiel Naturety, it's not thal easy and various enemy nashes have to be taken out along the way In Iolal, there are more than 2000 screens cremmed into the game with more than 60 differant types of monstars to slev



The most outstanding feature. though, is the Iwo-player made which splits the screen in two so I hat you and a Irland can compete for crystals. Both sets of sprites and backdrops are squashed up and it's very reminiscent of the two player mode in Some 2. Of course The Hidden have gone out of their way to cram in as many hidden passages. bonus levels and special affects as possible and there are all manner of power-ups and special weapons fittering each stage. It's all looking very groovy and, best of all, Global are looking to release the game at a bust get-busting £15.99 Other software houses, please take note!

U Pred 313 is supprised everyone of the show share column of Amqu-based by an got under devalopment. ng a damp browth, here's [ant some of sames you can expect to be playing



ge I'm s'enndy in pre even before the first pame has been al. With their obegon bests out at our I bern wen a street attended of new us being algood, so expect ween B-1-4 encements was used?

RENEGADE supring a decidantly loss pratting all the

Recogniz were ploing the comprise an is provided at two highly and com mes. Andrew Brayleteck's Unition 2 ace't really sood any Introduction, I'm sero. We a hose sheet fere up, and teaks not like rived Project X, or even better it! The



or kilygin, ffatf A' Tambir, la a cafesy Hismi romy ablch makes Atayla Pāci ok Uko a Spectrum pams.

SYSTEM 3

ut a Ferrari Noma while ago, but both projects have been at on less stop might and one the light of sing ed 1994, Patty, meanwhile, good from singth to strength and both the actro los-o farts disk and the coquel are to adaction and look destined for a



INNOCENT UNTIL CAUGHT PSYGNOSIS

The last time Psygnosis dripped is corporate too in the graphic adventure stakes was way back in 1989 with the lessthen-wonderful Chronoquest II Four years on and the Liverpool-based cornpany is trying to diversify into other genres, so naturally, seeing the success of Monkey Island, Leisure Suit Larry et st, they've decided to jump on the bendwagon and come up with their own-

graphic adventure. Set over three plenets, a couple of space ships and numerous scedy bers and broshels. Innocent stars Jack T Lad as the carefree hero whose pest career of tex avoidance has finelly caught up with him. Given just 28 days to cough up the back tax on 30 years of dodgy dealings, he's gol to beg, borrow or sleat his way out of trouble and thus avoid being kneecapped The luturatic setting has obviously bean influenced by Biado Runner and films of a similar lik, as the game is populated by a manageria of degenerates, free/orders, loafers, pimps, drug addicts, hookers, thinves, hangerson, gang members and other assorted hoodlums - in lact, pretty much like the GU Arrage Learn, if [m not mis-



ended etyle of game and the linear style most often associated with the genre. Psygnosis have miedled more autoplots, twists, turns and double-crosses into the glot than goes on in the Itakan government. The humour . is pretty gran el times and adopts a cynicel aimost world-weary attends to the unfolding events. This is countered, though, by some fullarious slap-stick scenes, ospecially those that take place at the local brothers and

With the PC version almost complete, the Londonbased programming learn, Divide By Ice, are due to start the Amiga conversion any day now A1200-specific

CYBERRACE CYBERDREAMS

CyberReca is a 3D combal and racing simulation with the late of the universe resting in your hends Apparently you've been forced to represent the Terran Empire on the cybertrack against the rest of the galaxy How well you perform in the arcade sequences determinas how The rest of the game unfolds, with dilferent storytimes emerging depending on your successes and lailures on the track. Feeluring something called ullra-last Voxel landscapes (which is abvious techle-telk for feesp hold of your hat, as this one moves laster

than Jon when he spots a ten pound note lying on the floor'), the game has a number of raytraced racing vehicles that you can individually

customise to your own specifications Unfortunately, that's ebout as much as we know shoul the game.

video we were given el the ECTS spends most of its time rabbling on about the game'e designer, Syd Mead No, we hadn't heard of him either, but e quick look of his biography shows that he's designed the interiors of a

number of jumbo jets as well as a couple of yachts and several lineme perkindes. Oh, and he was also the creative force behind the set designe for some film called Blade Runner.

ICE HOCKEY

ELECTRONIC ARTS This game was an ebsolutely huge hit on the Magadrive

when it was released a couple of years ago Bestcally. you control an entire lice hockey team in pursuit of major honours and the action comes thick and last as you cut up both the Ice and your opponents in an effort to win each match. This is real end-to-end stuff end, although

There's nothing to see so far on the Amiga converaion, Electronic Arts sre planning to have it ready turns out to be as good as their previdus conversions - nemely Road Resh, John Medden and Desert Strike - then well be milor a

As with all such sports games, Ice Hockey really mode. With the option to disable the rel, there's the



chance to get down to some sangus vigience as your two learns battle a out on the ice. Shoulder charges overhead slashes and even smacking the puck right into the lace of the opposing goale are oil possible and fist fighte break out at the earliest opportunity. Once in 'melea-mode', the action switches to a close-up of the two combetants exchanging blows just so you can see every punch and body blow as I rifles home. Altimes, this game is more like a beat om up then a sports sim, and jolly good lun II is tool

As you'd expect from a game in the EA Sports sense. there are a ion of options, such as setting off-eides and playing state to sort out. One of the nicest touches occurs when the home crowd cheer a reckless punch thrown at one of the visiting team's players and the boos and hisses that nng out when the same happens to one of your own team members. A contender for the Christmas number onel

TORNADO DIGITAL INTEGRATION

ah about taking their time. Di's Tornedo flight sim has much more than two years to complete? Now at the final testing stage options range from ground-based simulator tracking (rather dull, I'm efraid) to multi-eiroraft multi-mismon campaigns (seel-of-ths-prints stuff). With design mout from BAF alterews and British Aerospece, Torriedo an certainly boast a fine pedigree end this looks like it'll as more than becked up by the on-screen action. In the lineshed game you'll be able to choose between the interdictor Sinke Tornado (IDS) or the Air Delense artant (ADV). Leaving a side the nimula for and Iraining.

modes, the combal notion is broken down into a total of 54 preplanned missions Able to fly single

aircraft or multi-aircraft

missions (here's also a head-to-head link up option evalleblt so thel you and a friend can take to the akles and take a ach other on m as nal dog-fights. Yomado will be louching down at the and of June



nn Omsign's *Danksware* is ins rly. This is a drops 30 isometric advanta ordish you slay the rate of Ebryo, the su now, otherwise he'd have been there all ay. Other staff no show included Buddor W Stire, his receive burners on A Man Will A Stire, which is a harteentally ing pozzia gassa which revolute around Babba's deserrate othersels in sal back to Earth with only his triandly elies stick to bely him. Of course, this is no ordi many stick and it one he wood in our

oncol with the boundary to a service of a col a player for some player for walk errous. The player is some to new the gener's many Another may release from the Durby-leased softice in Binater, a melti-directional thool fam up set a ver five action-pucked they a positively stoffed with after manifes on well an antereld Selts and other such uld our the long-awaited release at

way - as well on heating quanties over the head with it, be can see it out a lover, a

Wander Dog, a Grilliand convention of the stage CO title and traducting some luth car

ADVENTURESOFT spillt adventure. The piet felle of a spi



line day, a new'll poppy arrives as his exploy with a teather bound florit, After breazing through its pages. Simpo encid tally upone e portal to a matter model and poses through it. Transported to a megical les of this newly found world betern in one cature to Earth. We present this to some datall had mosth end, I know it's a bit of a climbs, but this one mathy could rive!

GREMLIN

The Minje from the Min Olemension is all yet arream to our moment their this year in a Hockhocking new adventure. Countils were entraining decidedly lejid lipped about say insprovements to this gameplay, but it's remound thist a special ED varietie of the pame is in decidental and will be religisted in somities with the skerned of the Arrays CD. Watch out lar a work-lit-peopress shortly. There was also a lot of specula at the abow (oil from these quoriers, sel tak for streets name on this one versal As eight Arrige person don for Isomer, of sel s ou will he a major Reasond product. Lit

WD II Visi nte like IMI ien out no s easo und be one of the



Featuring huge puter version of Satman Returns captures the elmoperfectly, Denton

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nii i.

ying



Design have striven to cepture a very nuance of the smashhi blockbuster. For mistance, the Batman spote is made up. of more then 200 frames of animation so he swings end prances about the screen in a semi-realistic manner and many of the other characters have had a similar number of animeton frames devoted to their eyery movement

As if you need to be told, this is a scrolling platformbased beat 's m up set over five levels, with a ach stage based on a specific scena from the film. For instance, there's a punch up with the Red Thangle Geng, a one-or one encounter with Catwoman as well as a line! confrontation with the Penguin in his underground los World To help him in his light egainst crime, Batman comes equipped with an array of weapons moluding such old Isvountee as the batareng, the frieben-like baldisc and the po-anywhere grapping hook.

Each is velibegins with some digits ad graphics culted directly from the film as well as narrative script linking the game's events in with those of the movie. Then it's straight into the action which the game's degions is reckon nyels envibing you'll encounter in Street Emblor 2) Because of a clever 'decision tree', such enemy spale takes into account a number of different events in decid-Ing which is the basi method of attack, so you'll find their

STRIKER 2



whopping 94% end e CU Amige Superstar when we reviewed it last year, the game failed to make much of an impression in the software charts Perhaps II was something to do with a little known game called Sensible Soccer being released at the same time, who knows?! Not to be outdone. The Rage team are back end are busy programming a sequel which, they cleam, will deligitely wrest the footballing crown from Seasible Soccar once and for all Staker 2 will be madelled guits closely on Super-Striker, the SNES's version of the original game. The graphics will undergo a complete overheul and be made much more detailed then they were in the first game. The sound If feets are else going to be beefed up and any new rules that have been introduced recently, such as the back-pass rule, will be incorporated There will be more Inck shots in the

shof you can think of

sequel, and Rage are claiming their you'll be able to pull off virtually any

THE LOST VIKINGS

Already a hit on the SNES, The Lost Vilongs in a platform-cum-puzzia game lealuring three over-weight, middle-aged Vikings who've foregone the pleasures of prilaging and plundering and settled down to enice quist life with the wife end kids. Alas, their new-lound pleasures of nappy changing and staying in on Salurday nights with the missus are short-lived, as the tubby Ino are spirited away by a tribe of alien zoologists

no two games will ever be exactly a tike

The action begins with our three Nordic heroes awakening to find them selves in the cargo hold of the alrens' spaceship. Vowing to escape, this Three EX-warriors nel out to vanquish their lodnappers end rotum to their loved one's. Between themselves and Ireedom, though, its some of the most things are fairly simple to bright with, i.e. pull layer to open door and stilp on

transporter to reach inaccessible level, things soon etart to get complicated their own special ebittes. Enk the Swift is fast on his legs, can jump feltly high, end can headbut! his way through solid objects. Baleog the Beserker is a bit of a nutter really and would rather shoot first and ask quastions later [much like our own Ed, in lect - Dep Ed]. He possesses both a sword and a bow and errow and these obviously come in handy for bumping off any slain nastes that try to helt your progress. The last of your Vikings. Old the Stout, sesses a huge shalld which can be used to lend off blows or employed as a handy perachute when taking a fall. As you've probably gathered, each of the germs's many levels and stages

is solved by learn work and exploiting each Vrking's unique abrilles to the best edvantage. You only need to make one man early on and you's heve to start the whole

siage all over egain Imanine e orose. behaven Dick Dangerous and Lemmings, and you'll have a good idea what the game a ebout!



LECTRONIC ARTS n seciónilly quiet ut the show, ok libuy did have a processe on tix

ed, a company which they ad up at the beginning of the year. og's Symilicate is progressing mostly. It is beelpass sim with a shoot 'art ap



ned are the

elng skills will definitely come is ly ion, Frere whal we've zone, it's s ary almospheria game, and is agreen aretriscont of the Allen reaster.

LOBAL SOFTWARE of al diabol's promotional afforts were montrated on the Hilden's latest game.

de to det toe Antige – er ee enty cre-lgend ond codod by Visios Software. Ovo deare behind PD blis soch as reber end Cyberrells, than are over 100 invels to explore, bon of ancret as and hidden demonste, how-bullon-

RESSIONS

spley. When Two Worlds War it a sir to year in 2121 and war has just brok natings and thus wie the war. Other titles in knop your eyes partied for are: Rater of Engagement 2, a strategic seyes narrhall poons, and The Blue and The Grey, a wen gazen set during the Amercian Divil Wor.



DISPOSABLE HERO

From the same development learn which brought you nuch peel glories as Flynbo's Quast and Hewkeye comes this nifty action-proked blaster Disposable Hero is a sex level shoot 'em up featuring some mouth-watering definite Gigeresque appeal What's more, there are two boll-on ermaments(1) and absolutely meases of alien

hardes rust walling to be blasted into protoplasmic gloop This in the story thus ian it's 2867 end, efter meny years of intergelectic war, an elite fighting force has been formed, consisting of the world's most expenenced troops. Known as D-Heroes, the special group has been number of lest blue prints to some mind-straggeringly

ego but once collected they will be used to build a emidable new amenal and thus help the D Herois and the brutal war once end for all. if might not be in the sume league as Project X, but what we've seen

Jered throughout the planet more than a thousand years

finished game Each level is absolutely H-U-G-E and packed with wave efter wave of enemy aprites Slarting out with a bog-ntendard blaster.

venous armament factostrategically scattered throughout each stage end, once

you've collected some parts of the blumprint, entering These will enable you to construct bigger and better weapons. It's this part of the game which sets D-Hero spart from the million other mindless blasts currently yving for your cash and adds an element of strategy to powarful weepons systems. The bluepnnis were sool month's issue of CU Amiga

Hero's a first look at Affred Chicken, the With the accent firmly

ALFRED CHICKEN

MINDSCAPE



SON OF THE EMPIRE MINDSCAPE

One of Mindscape's most successful mileases in recent years was an RFG. called Legard For an RPG it used some unusual means of depicting the action, rely viewpoint and tiny cherac-



be hooked by its wonderful depiction of dungson bashing and spelicasting The plot for Son of the Empire cames on where Legend left off. Your party of adventurers has headed East to the Assassin's homeland effor the death of his father, the Emperor He was killed by four Guardiann who have now fied to the farthest corners of the Realm. If n your job to track them down, infi-Irale their ranks and then gel close enough to deal out a little payback.

It'n been billed an the next chapter in the Legend story, which basically means that it's not a sequel, more a stand-alone expansion. This means that you'll heve the same characters to control - Assassin, Bunemaster, Besirker and Troubador - in an Eastern setting. You can even port across your original group for extre continuity. There'll be very lew changes in actual gamepley though the game engine itself will be improved. The spell system will not be changed as Mindscape feel theil it's one of the best things about the grane! Newcomers to line Legend's sace will have to go through the old "What III. combine that runs with this ingredient' that and error routine to make any spells, old hands will, ol course, be eble to use all those they already know The edventurers will be ready to do battle within the next couple of months.

BLACK SECT LANKHOR

Somewhal unknown in the UK, Lankhor have built up a sturdy reputation in their netive France with a string of fine releases including Grand Prix Racer, Vision, and the graphic Whedennit, Meaph Island Recently, they've been reliher quist,

but all that's due to change with the release of Black cama lo take place in the depths of the Yorkshire Moors Eech, by gum,



may amis for something like that! , Despite its Last of the Summer Wine setting Lankhor's latest offering is certainly not meant to be teken light-heartedly. The small village of Hobdale has been overtaken by a strange and deadly avil known as the Black Sect. Feet and lerror are everywhere and the local Inhabitants have fallen victim to the Sect's deadly spell. Only you (naturally!) can help put en end to this. deadly injestation end, in the process, evenge the death of your grandisther, murdered by the Sect's evil leader in order to do so, you must trevel to the casile of the Black

Sect and benish the evil spirits to an elemal damnation You only need to take a look at the screen shot here to see whell e smashing looking geme this is. With 34 separate locations to explore, it's not the biggest graphic adventure we've come ecross but it's definitely one of the most etmospheric. Expect a review in a couple of months.

DUNE 2 -- THE BATTLE FOR ARRAKIS

Anusher Westwood project is Cryo's first game, which was reasonably true to the origi nove Westwood's sequel ways scart regard to Frank metert's Dune chronology and there's uses some of the book's

conventions as a backdrop for Set a few thousand years swicre the tirst geme (and the ongine novel), Dune 2 is a straticolo war game set

equinate background of spice production and e planel e-de baltie to become the ebsolute ruler of Arrakis. The seacec Empire has fallen behind with its mortgage paymores and needs to get its herids on a large injection of cost as pulpkly as possible. Towards this end, the onlar as Emperor has lard down a challenge for the galaxy's Pres ruing houses - the Harkonnen, the Atreides end The Ordine - to save which of them can mice the most



Spice, the most valuable mmodify known to men Put in control of one at the three Houses, It's up to you to build up your Spice opera ettack by the rival mmmg communities. Over a period of time, you'll be able to

invest your profits in bigger and better mining machinery as well as building up a vast army. The computer intelligence is such that enemy units

will always attack your weakest points and, once they've taken a bit of fleis, will break off to regroup and attack another flenk

There are a mynad number of options to control, with Framen strikes taking place all the time as well as the ever present threat of nuclear were breaking out. The PC version was finished some time ago and the Amiga conversion should be with us by the Autumn.

Sky is a strateg nt to, sed occount the advaceance of me op opelies on the End Baron, Ka libers and France's Governi Fack.



year, Amigo owners will get the chance to ike part in Legicz, o 3D roto-glaying own slooslosind by Magnetic Scrotic

WAR IN THE **EMPIRE SOFTWARE**

Empire have pretty much got the tank simulation genre sown up. Just to underline their dominance they're warfare sim in the popular Team Yankes-Pacific Islands senes. This northern Kuwait. The year is 1995



Kuwari by mounting a surprise attack Disfig two battations from the Medina Republican Guard Not only have they taken over the Sabriya and Ar Rawdatayn orfields, but they've also

With foreign misevention still family have enissted the help of a from the original Desert Storm opera hon. With the plever aimultaneously m control of four armoured vehicles, most notably the M1A1 tank, the first Kuwan shorotne After that, it's on to the two marer Kuwart celfelds and a major sel piece tank battle. Over 15 separate tank battles have to be lought out in the 400 square miles of offield to achieve success

ALIEN BREED 2

After securing the space stebon analost the allen intestation of the first game, Alian Breed 2 pits the player egainst an airen army which has teken over an entire federation planet! This time there Allens, new and more devasted



ing weapons and bolt-on power ups, plus e range of differ ent scenarios. Team 17 are siso promising the first A1200 game to reelly take advantage of the new graphics chip and faster processor. "There'll be just e whole fall more all everything. Mare levels, better graphics, increable sound effects - you name it and we'll cram a ini' enthuses Martyn Brown, the geme e project manager. 'Altern Breed 2 will be much more open-ended then the first game, with missions taking players through multi-levels on search and destroy

of whell to expect in the finished game. A Christmas '93 release

LANDS O' LORE VIRGIN

it you're a fan of Eye of the Beholder for II, then you'll doubtless be interested in whet the greative team behind those two games are up to now. Having wowed us all with the recently released Legend of Kyrandia. Westwood Studios are currently working on Lands O'Lore. The Throne of Chaos. Details of the plot are sketchy (Westwood don't want to give too much ewey at this stage), but it involves a shape-shifting again of the Dark Army, the beautiful but deadly Scotia, essumma control of a mythical land. With her gnp on the lend growing dey by day, the populace turn to you as then only possible saviour. Well, good luck sunbeam - it Westwood's previous games are anything to go by, you're bloody going to need it! This promises to be a completely gigantic Role Playing Game with eight distinct starylines and over 30 different areas to explore There'll be a total of seven different characters to choose from and a character's



determined by the player's on-screen ectors If you show a particular penchant to casting spells, you'll be granted the rank of a mage, or if punching someone in the face is more your tone, then you'll be promoted to a

development will be

UBISOFT Nat much seem from French authl, Bal Soft, except a superh new dome of an up and-corries Hadesmen't same ~ Yel Jose Despite the crap same this locks frice as mi platform game, filted to overtog willt oil norts of tricks and traps near misked jages, Welch for it see

Americany of mind vacuum vermory, Microprose have F-117A and Sub War 2051 Hand up for Christiese, with Fleide of Glovy a military action, game to bellew notes after Micro ease on those blogles soon.



NEXT MON' JUNE ISSUE ON SALE 26TH MAY

DISK 58

COLD DISK ERROC





We've done it again! Coverdisk 58 will contain a full £80s worth of commercial software! Nothing less than the complete fully-functioning version of

Hyperbook will be yours with the June issue of CU Amiga Whether you're a seasoned techte or a complete beginner, Hyperbook gives you the power to create spectacular multi-media presentations, graphic databases, address books, story books, educational tools, stresshows and

plenty more basides. Absolutely no programming expensions is needed! Anyone can use it, from absolute beginners to experienced Arriga lolk, with astoundingly professional looking results. Here are just a few of the many features you can incorporate in your Hyperbook creations at the click of a button.

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- ARexx scripts Smooth ledes and wipes

DISK 59

NO DINI'S

This is the biggest game of the year and we've got a threeminute playable demo on next month's coverdisk Yes, that's right, Dano Dini's Goelf is finally sal for release and those good guys and gals at Virgin have given the exclusive dema to GU Arriga II you thought Seasible Soccer was good, just wait until



you get your sweaty little mitts on this one In case you re not aware, Ding is the coding brains behind both Kick Off and its blockbusting sequel, Klok Off 2. Now he s back, with a completely new geme incorporating new graphics new code end new super-last action. This is definitely the stickest football kicksbout ever to appear on the Amiga, so don't

miss itt Massive 24x16 sprites is special zoom mode, better ball control, restato pleyer acceleration sel place mayes, and Improved computer intel ligence are just some of the many improvements that Dino has made to

his previous efforts Each player will have then own set of eight statutetes and there's even a horizontally scrolling pitch option thrown in for good men

sure. Watch out for it!

* Contents subject to change without notice

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First Class Flight



As masters of the flight sim, MicroProse sets the standard for excitement in the sky. The three games shown here, for instance, feature realism other publishers can only emulate. And all these sward winning titles are available for Amigas.

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ALCRO PROSE

MicroProse Ltd. Unit 1 Hampton Road Industrial Estate

Dino Dini is back with a brand new football sim, and Paul Rand puts the boot in.

her Kick Off was launched onto an unsuspecting world way back in 1959, it was hailed as one of the best football games ever, and Dino Dinribecame a software star overnight. When the sequel, Kick Off 2, hit line streets, it was helied as THE best footbell game ever. A lot has changed since then; Anno, the company that pubfished both titles has since converted the latter game to e wide variety of console formets, Dml hes perted company with Anco and moved over to Virgin, but he can't use the Kick Off name any more because & doesn't belong to him. Fens have been waiting an age for Dino to come up with the goods e therd lime - thiere's a new champion In town in the form of Sensible Soccer, after all - but how could be Improve upon what is already a very classy title?

Goall, the latest in the Kick Off sage, is much, much more than just e re-tuned boy-racer version of the original, eithough when you sit down and play you immediately realise their the unique control method which underpinned Kick Offs success remains There are, however, a veri sty of subile tweeks added to give greater depth of gamapity.

IN CONTROL The most important addition to the

control of your characters is the ability of players to speed up and slow

If the number nine two Mcked the ball hard enough, that a one-oil to the homen player:

down on the ball. Keeping the joystick pushed forward causes your player to quicken his peca, which is useful when it comes to cherging after en opponent who has the ball, but not terribly helpful for accurate control - more often than not, expecially in the early stages of learning the rudiments of the new Improved system, you'll charge straight past your man That's why it's important to gauge accurately the position your cherister should have reached in relation to the opponent in order to slow down, by nudging the slick as opposed to keaping it pushed fully forward. The gentlemanty art of lackling has been altered too; as impossible to run through the other pleyers, and tackee are judged by the referee in order of seventy. So for instance, were you to go in for the bell from the side, the ret is likely to just wave play on or possibly award a free lack, but if you go in from the

WHO'S TRIS DINO DINI GUY?

The property of the

num theasan a bash si mpan se*unt*epphin saar Cambridge, where himself and the Dirk gocking Weir Yirst hore (a insery Okni?). Seek of Inch Ofnol



SUPER STAR



If he corner laking, thepw-los use this yew lirection line which shows exact

KICK OFF



er haun't and a hope of reachies that one - it a soing to hit the feede of the poet and Bounds in fer a cracker of a goall

www.Ks more than likely that you'll to given a siem ticking-off or even

CAUGHT IN A TRAP apposed to the bell being permamore plued to the feet as in practically every other soccar game before and since the game's release) so popular it would have been toolish to take it out. However, one complaint was the Impoint espect

basically, the pleyer would stand The ball and it would be almost empossible to wrestle it from him shoul sending him orashing to the ground and gwing eway a free look --

nicced ac another attempt to cash in on a specier sport', Belara ian Jone, Ibe con yery longy at the time This has been rectified in the new version of the game; when the ball is stopped, if it positioned sest in front of the character ellowing for more

till garra a bad review was a dig mistaka

When the feture of digital kickshame was

des to the onell lecother startling

mewhate in the low 70's across the



ick

the

realistic tacking and, because there is lass like thood of the game being stopped due to e loui, the game flows more fluidly. The wey line ball acts has been aghlened up too, gone are the ludicrously long locks from keeper to opposition 18 yard box which seasoned Kick Off 2 plays is there is no offside rule in Kick Off 2.



you could peas the ball back to your keeps I, wait for the opposition's defenders to move lowerd the ball end for your strike to move closer to the other side a goal. That Inck cannot be pulled in Goalf, because you can't kick that length of shot anymore and also because the new back-pass rule which Dino has incorporated into his game, does not allow keepers to pick up the ball

when it is licked to them Offsides ere still roiseing though --Dino felt they would six mihr flow of the game, and I egree, but I believe there should at least be the option to play with the rule as it would add a greater level of challenge for expenenced players



Un Res Allek GH 2, which had you gauging the Sirection of your shot using a serving arrow Goalf's penalty laking is much more sireight forward - Jani push the stock and hill fire!

TAILOR MADE As in the previous two titles, Gonti-

pontains a number of helpful options which ellow you to tailor almost-the entire came to sult your skills. A vanety of difficulty levels have been included to help even sad. Galashead Diadora League pleyers attain Aston Ville status in a metter of minutes. And speaking of individual leams, their is an absolute stack of them incorporated into Gost" All the big players era in there, as well as a

What is particularly impressive ebout this espect of Goalf le that and side is made up of real players, and each player has his own statuslics which mirror his real life form end general performance. For example, were you to select Arsenal (why on sarth you'd do that I'm not guite sure) and take a look at Ian Wright's stats.



KICK OFF 2

New could be possibly come up with a sequel? After all Alck Office liewiess pamentay and nyarything you could presently want didn't II? Wall, in the words of Aussie sees Idol Olesal you never miss you water out I you raidry. Kick ON 2 exploded outs on expedient scens and gave surple for more than they could ever have expected. You want a set grace detegra? You get it Yan want impreved graphics and gamaplay? You ve get that as well. The goallangurs were more intelligent, as were the competer-controlled players. You had a wide selection of lactics to employ - ones which actually made a difference to the anteems of the parted Even now three years later, if a generally agreed that Kick Off 2 is the linear looksall game aver to appear, and so this had sai himcell one hall of a forgat in basil

en on the pitch - just a couple of minutes this is go before the beo speed dry down to the plust of Brah, And can see ju you Brance custoff



facilite, had for amedian graphted. Mountly want eracy aver the first or, had really leat his top own this de, awarding it better to a Separate a che we go from bene?

you would notice that his aggression and goal sconng attributes are high whilst his delensive and goalkeaping abili-

bes verge on the laughable. There are around 3000 different players in There, and you can change the names of each to keep up with the Iransler markets Unfortunately, it s not possible to alter the actual statestics of the players, so you'll just have to hope that when, say Manchester United finally decide to put Bryan Robson out to pasture, his replacement possesses similar qualities

Some hope Dead bell situations have been redically sillered. Whereas in Kick Off 2 success in these eress generally relied upon your shifty to use aftertouch to bend the ball eround the field. Dino has used a brand new system in Goalf The screen switches to a Sensible Soccer pulled-back view of the pitch, showing far more of the pitch than usual. When taking a throw-in or a comer a dotted line appears next to your player. This line can be edjusted using the joystick to place the ball wherever you wish, within reason. Short or long passes can be made along the ground or high in the air, this system takes some time to get used to, but once you have mastered its use it becomes second nature

SENSIBLE DECISION While we re on the subject, I've also gol to mention the fact that you can



0

Here 8 a similar about this time taken on the hocksuriel setting, II anothing, Goald to more hardle Blayed from side in side - sepecially when getting to girlye with the switched confict system in

because, unlike Sensible Soccer which was designed to be a slower, more strategic game, Gost! in mire-mode plays at the same hectic pace as it does in the normal close-up view.

However, once you become accustomed to the pace of the game, you really do get the bost of both worlds - the frantic arcade sotion los which Dinf's lootball games are unversally applaimed, and the opportunity to de more than just lock and run because you can see more al the orich, hence more of the players are in view and you can plan passes more easily than when having to rely on the scanner. That's not the only way to play, though - select Horizontal view on the options menu and the patch swive's through 90°. creating in effect a whole new ball gamel The joystick controls change accordingly, and It's actually much more satisfying to score a goal from this angle on you can see more of the animeton around the godimouth

One of the 'features' of Kick Off 2 which many players figured out et an early age was the ability to score a goal from the centre circle by simply hoofing the ball in a straight line - if you timed the lock correctly by listing



The new observoirs are a yest improvement on Kick Off 2s heats players and effects such as the half billing the received jurich is likely to happen here) edd even men to the strengthere.









The computer springs the official trop, leading he striker all slove and racely in proteto - the posts had better he wide assists to deal with the appropring voltay!

The bare bones of the onginal are

intact, but the subtle additions and

alterations to the gemepley breeths

new life into what could have been a tired old package Graphically there's

been a hell of a lot of work done, and

now the basic footballers are hard and chunky and move around the

screen with a high degree of class

(even il the goalkeapers look a bit

like Adolf Hele if). Ding has taken e

leal out of Sensible Softwere's histy

tome and included a large amount of digitised sound effects, many of

which are crowd noises which crop

up throughoul the proceedings -



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much posier to direct a shot into the box

loose nghl on the edge of the circle nine times out of ten the ball would sall over the keaper's head and into the net. This bug has been recitied in Goall, as hee the other levounts which allowed you to run over the legs of an opponent in his six yard box, fell over and win a penelty.

Having been a massive fan of Dino Dini's socces Etien ever since I got hold of the original Kick Off, I was not all aura how much more ha could do with the genre he created single-handedly After ell, the control system in Kick Off 2 is nest perfect grephics were a bill jetty in the ongo nal but they served their purpose and of visidion literary and bluow is release a supposedly new game which turned out to be the prequal with a Ince-Iff. But now that I've got. my hands on Gost and tinkared with 4 for a period of time, I can categori cally state that Kick Off 2 has come out of the plastic surgery with a lecelift. Jummy tuck and liposuction on the thighe and buttock region!

PLAYER MANAGER

By 1950, the Kick Offgames had well and traly taken over the arcade feature market. Recommended elex would have left if there, being substited with taking over a band as experienced in the one, but not Disc. Keeping within the fermal of testant parries, by fermed the electrons of In Player Marrager, must of the original Kick Off was evident to the arcade segment at the game, which might seem a little of a backtrack, but when you get it squeez a butly contern tanging prompted in backgroup you trace one field of a little. Buying and noting players to create the strangest team year can, and then dallning avery expect of their playing toches, you contif then used nut on the eitch in your player menager galax and (topotally) lead the team In victory. Not an easy as it assess and what a prepert product

there's a particularly effective noise for those occasions where you slam the ball off the goslposi too, which really makes the heart sink as you realise just how close you were to putting the pig's bladder into the back of the orean bag

IN PERSPECTIVE

The new perspectives that you can select in Goall are a fantastic eddition, both ere like brand new games in themselves - the Sonsi view really is alon to a supercharged version of Renegade's smuch, while the horizontal game is a dream come true for



Goal's herizontal playing view adds a further discension to an already sturning game.

all those who enjoy left-to-right scrolling looty but can't stand the best sticking to the toe of your boot! For some time now, the pundits have been crowing about Sensible Soccer's majestic rise to the top of the championship table, shunting Klick Off 2 into second place I never egreed with that view; I pley both games regularly, and have elways felt that the coveted crown belences precariously between the two titles. Ot et least, I did until Goall came along This is without doubt THE soccer game to own - it's got far more gameplay and lestures then anything else ground loday. It's definitely the new benchmark for the genre, and you can bel your life thal, as you end this, Chine Yales and Jon Hare will be doing the same and wondering what they can do with Sensisocosi 2 to etay in the erana in this battle of the computer footy Titens (1)



How's the goalfeeper going to fare with all those busies milling scound his area?



by just stick to the normal Kicii Off 2 view when you can try your hand at a Sensioncon-etyle



soccer sim -- a must for OVERALL 93%

for can take almost the entire game in sell year own particular result, near set set in Wright's statistics. They can be changed Kil dealen has been turbes because our particular sense. I passich Town at the top? Stoney

Ameagre Prices

Games

SO CONSTRUCTION KIT 2 HMB; 4THE NOTES: A TRAIN HMB; ALIANDONED ELACES 2 HMB; ADDAMS FAMILY ADVANCED DESTROYER SMI AFTER INCHEST AIP BLICKS (198)
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ext year marks the 50th anniversery of the Normendy landings, and we can expect to see massed fietilitis of pensionedoff naval vessels and squadrons of aging erroraft to mark the occasion US Gold, presumably beening this In mind, have got the commemorations off to an early start with the launch of their computer simulation O-Day

The game begins on the fast day of the landings. June 6th 1944, and places you in the unerwieble position of commander-in-chief. From this lafty affice you oversee the entire operation, issuing orders to units and instigating aerial bombardments. As it this wasn't enough, the game also gives you the option of participating In Individual battles

PLAYING THE PART D-Day is broken into five sections The largest is a wargame which

places you in charge of the troop movements on the opening days of the contlict. In addition to this there are four action games which put you in centrel of paratroopers, infantry, tanks and a bomber. Obviously it would take ages to complete the geme if you had to participate in every contlict, so you can be selective about which ones you involve yourself in. So that you can keep track of things, the game displeys a list of all current conflicts, a feature that comes in handy when you're trying to rally troops for a charge

MIXED BAG

The tour sub-games are a modure of action end strategy. The aim of paratroopers is to steel your intrepld troops sately to the ground without getting them shot or landing in Irees They can be moved left and right and sped up of slowed down to compen-

A short slightedd Him sequence intradacon each stage, in this case it's the beginning of the O-Cay

in size from one to 10. These are

armed with rifles, grenados end mor

cover. What makes this particularly

difficult is that you can only issue

ters. They can be instructed to open

fire or dash behind the various bits of

orders to one soldier at a time, which

San Francisco Juliera

sate for wind conditions. This section means that you've got to hope that is reminispent of one of the early 60s nothing will happen to the others console games, with its flat graphics while you're trying to guide individuend linear gamepley als to safety. The intentry game finds you in control of a pietoon of troops ranging

The result is a game which comes across as a poor men's Lasar Squad If there were any awards for leugheble graptucs this part of the game would sweep the opposition aside The spotes are tiny and there's mini mal animation throughout





FOUR OF A KIND

BOMBER

The name the 6-17 domber that you print up I the most manes were its thing up aterni. Il yan steer too for h's nexy to the engines and and so on a one way sorbing at 4030 last on your flight which is matricing but fails in the with the airsseeks nature of this section.

INFANTRY

are in the taughost section of the game Vous intrepté lost serdiers face oil against at Boy attempt to liberate villages and propic three air beetlis lines. The way to motioned in this encolon is got your traces ender ozwar sa popri sa possible. Palinto la at as will find them sicked ob by seamy moors Deserte the different accountes as abjective remains the same throughout samply kill every arrany in the area

PARACHUTE

Orbant a donet the worst of the loss gomes. There's lyttle appeal in a game such as this seture you're simply slessing pour guys to the graned. Il does became bricky when the wind place no and you la rivele painted man evilla to too a since but if you keep an aya on their postwood if a relatively every in pet there to terra lirma salale

TANK

Driving through the canningship shouling term bonses is great for notill you measures ar pagery and III only lakes a wax miss to damage a tack a trans as guiprices of the day. Does you withcles are nation stowed II a last a matter of first before a fucky shot althor way decides the

BACK TO BASICS

somber takes the form of a pseudo Boht-sim. Your shown on external wew of yon: B-17 Bamber with yon: tergots merked out in the distance e aim is to line you bomber up with them, then hij fire at the night momen) to deliver its payload. Again

this is a very simple offer with few controls and almost no skill required Tenk is the most emoyable of the lour sub-games. As commonder of a ordered to blow no bridges, commend posts and other tanks while trysta to hold on to as meny of your

vehicles as possible. If you lency some action you can take the machine gunner's or moin gnnner's seel. From this position you have to jely on the computer to do the drying which it menages by taking the straightest route from A to B, which often incorporates balldates, trees end friendly tanks.

Belove you ettempt to invode Enrope ample-handed, if paye to try out the various treining missions on offer There are several of these and they break you into the conflict gentiv. pitting you against a paltry number of enemies

RAISING THE

If you feel that pnling off e successful landing is child a play, you can bring Into play two options which almost donble the chellenge. The first is their the German army bring their Panzer reserves into the battle In the real thing they held back the



The beginning of the landings. The belt in Ind beltom-centre of the acreen altered you to acroll around the may of weatern

reserve forces, which proved a disas-Irous move. This means that as soon as you think you re getting the upper hand, several squadrons of tanks move in, usually with drastic consegnences for your Infaniry. The second option has Hillor waking n when the landings take place. History bulls will know that none of Hitler's staff had the bottle to wake him when they heard the landings were taking place. Activating this option greatly increases the intelligence of the German forces, as they now have their commander issning orders

In the menual the programmers cleim to have spent three years doveloping this gome. From the finished product I can only assume they spent 30 months watching old wor movies. The Igni elements of this



The appets provincellance you to sell is close to the action and see exactly where you units ere. get meany units are only visible when one of yours gets in close.

game ere all shoddy to say the least The parachiting can be categorised os no-action packed with the format for quicing your donne paretroopers to safety being hideously doll The other three sec

tions all have far superior Individual connerparts. Tank, for example is beltered by Team Yenkee Although the latter costs more and you don't get the other elements of D-Day or the historical side its quality more than makes up for the Ultimately the game is

bonng Thoro's only sa many times you can play each of the sub-games and, obviously, the wargame starts the same every time end there are only a few effective stintuales to discover. There was so

much more they could have done For Instance, the British division used a arong of vehicles call funnies durlog their lendings. These were usnelly tanks or ermoured cars adapted for mine dearing. There a also the aspect of the problems the individual divisions faced. The American paratroopers which Isn behind enemy lines got separated and suffered heavy losses. Events such as these leave plenty of scope for specific scenarios

Throughout the game the graphics are o mish-mesh of sprites and vectors. That said, the vector-besed tank auction is last, while the bomber features some rice shadow effects

and smooth animation To cap it all, the worgome side is elso saverely lacking. Instead of dealing with such aspects as supply,

reinforcements and combining rinds. it a simply a mater of pointing the varions platoons in the right direction The result is a game which docan't really go enywhere. These an'l much depth or venety, and the lack of olmosphere strips away the

historical Interest. A very disappointing effort. US GOLD £29.99



NUMBER OF PLAYERS HARD DISK INSTALLABLE

> ****** *****54%

SOUND LASTABILITY PLAYABILITY A good concept that has unfortnnalely bean badly executed

OVERALL 63%







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THE QUESTIONS

- 1. What is a tont?
- A. A certain type-style
- B. A thing to stick babies in C. A small Peruvian pony
- 2. What's a 'jaggy'?
- A. A powerful soccer shot B. Scooby Doo's triend
- C. A blocky bitmap

3. What's leading?

- A. The space between lines of words
- B. The stuff people nick off church roofs C. What Mr. Major doesn't do

Delphine finally display their latest arcade adventure, while Tony Dillon tries to convince all that they based the

main character on him...

test happens if you 'borrow plots from The Running Man, The winnower Man, Total Recall They Live and Blade Runner and mix them of together? You create the plot of Rushback In Delphine's latest you take the role of a young scientist who, by inventing a pair of classes which can read molecular density, discovers that allene have infiltrated society. Once the above reakse this they lodnep you and drop you on their planet eeth a blenk mind.

Flashback is an arcade adventure from the team that brought you



you find a holocube which gives you some idea of what to do. Off you Irol and before long you're picking up stones and using them to open doors. or manipulating lifts using an intricate

> The game is played over seven levels, and each level is cleverly broken down mto segments Not that you'd notice the segments From the start, there are only about eight acreens you can actually get to - the rest of the level is blocked by a bridge that has to be acti vated By some stroke, the last puzzie of the segment happens to be the

bridge activator, so you move to the next segment without realising it.

it is the variabon in the gameplay that makes Flashback so grocyy On level two, you race around a space ony, talkens to people and eventually working for a living. From there on

Flashback is one hell of a good

HRATES AHOY!



there's a part in a futuristic dame

about to find out

show and your return to Earth. **ROTO-WHATTING?** The graphics are fabulous. Using

Rotoscacing, Delotine have come up with the most realistic main character ammation ever, even better than Prince Of Persia. Every possible movement has been covered, and no matter what you do, the sprite always moves in a fluid and convincing way The same goes for all the enemy sprites and other animation. "Frm-like was a phrase that swam through my head while olsyma; 'the best ever was another

Sound has been used to minmal effect, which is strange alongside the obvious effort put into the visuals Very tow spot effects and the occasigned burst of music make up the aural experience. One very nice touch though, is the way that mejor effects, such as a cannon tinng, can be heard laintly if you are on one of the screens adjacent to the action

CONCLUSION

game. The first few times I played it, I



Frecegnise that chair! a Total Recell helitay?

based it. Coming from the wrong angle, I assumed it was a graphic adventure, and with that in mind quite rightly panned it it was only when I found mysell bashing away on level tour at three a clock in the morning that I realised what a superb game it is, its mix of quality enima. tion and all-out blasting make it hrghly recommended



US GOLD, UNITS 2-3 HOLFORD WAY, HOLFORO TRADING ESTATE, TIRI HAM 66 7AX TEL, 021 625 3366

RELEASE DATE DELPHONE CONTROLS JOYSTICK, JOYPAO NUMBER OF PLAYERS

+++71% •0086% ASTABILITY

> Febulous grephics, and bags of playability. Very, very pleyable.

OVERALL 879

stuff Arree's films are made of, with more scraps then Street Fighter 21 WHO AM I? You begin the genre with few posses-

sions and no idea as to who or where you are Move one screen down and

Il you like, you can seem fate areas of the

Another World, but this is far more

pletform adventure. Unfortunately this means lots of puzzles where you have to find an object and give it to

basic, going more for the traditional

someone else Yawn On the upside,

though, it leads to loads and loads of

action! Yes. Flashback is rich with the

screen, and then scroll about with the mouse Great for arying to find objects and serbohes but you can I play the game the this.

MEET THE GUYS

The first nasty to attack Slobed up this galesa guard. He's got a baga sweed, and tertenately he's auf ton bright

Not all secons are act to get Stehad, Feer this arragets and he'll give you a set al

Viziar o ola Delants Thus GOO FEELD nents Earth



As the only one in the office with a penchant for curlytoed sandals, Jon Sloan was the perfect choice for Krisalis' new platform puzzler.

Right: At the start of the game Sinbed is locked up in the Califo a cente. Fortunately, this light and it will be the beautiful beautiful beautiful died ician hose to get sur. Simply press the spacete



The second ale mantal Direct is Water Wetch him grow before shooting upikes at yen.



Lulia away can be luch led at the rod

mater came





Throughout the game if you look carefully you one find many hidden reasons. These can obtain a size currency, power-ups or even extra al Use this stome to gain access to one

id your parents ever try to send you to sleep at night by telling you stones of a brave prince beating overwhelming odds to rescue a process? Warn they full of demons and nasty monsters? Yes? I know, I needed years of therapy afterwards too. That eade, if you want to relive those tales of derringdo. Krisalis are releasing the game

Arebien Nights tells the story of Sinbad Jnr., Chief Gardener's Assistant Helper (2nd Class), to the Calmb of some small eastern country. He is secretly in love with the Calinh's daughter, Princess Leila (isn't the hero elways?) Unfortunately, he just doesn't have the nagessery amount of 000's at the end of his bank statement to make a

all, the svill Vizier has designs on Leils too, and he has the power to get her Being e generally nasty sort of bloke the Vizier can't make Letta. an offer directly, so he summons a demon from one of the more unplement levels of Hall to steel her sway Sinbad is in the garden when the demon appears and stlacks Lella, sensing trouble (boy this kid is quick!) he starts to sosie the palace walls to reach Laila's balcony Just as he gets there the demon takes off so Sinbad grabs its foot, but his grip isn't very good and he falls to the around below. When he wakes up. Sinbad finds himself in the palace dungeon eccused at ludnapping Lelie and using evil screery. Sinbad has to escape to rescue the princess and clear his name. Which is where



What we have here is the usual scrolling pietform fare. Guide Sinbad. across the screens, leaping unleapable geps and whacking all sorts of nasties in the process. On the tace of it there doesn't seem to be much to distinguish Arabian Nights from the 1001 pilter platform remps Fortunately, there's more to it than first meets the eye. Apart from beating the necessary toystick twitching

A1200 VERSION

As it stands. Arabian Nights is compatible with the A1200. And glaying it on one of these denotice increases the overall arcount of grughic distall. Se, for exer ple, you'll can leads of larges telling from the trees, bigger dost clouds and more objects in the facilitors Also, Krissis ere planning a unpai At 280-apeofils ver mor which should be available come time talar this year.

dangers, playing Arabian Nights requires a little brein power es Krisalis have had the foresight to include a puzzle element in the onms. Not only does it make playing and winning harder, it also adds to

the lastebility of the whole thing The puzzles are not brain strei Ing but serve as a useful diversion. from the main action. For instance, on level two Sinbed has to find some way to reach a high platform Look carefully and you'll see a flower which looks as though it needs watering If you check your inventory (he can carry up to 36 Items at once you won't find any liquid Howaver, surfler in the level he upset a bear



er to keep up with the Vizier, Sinbed sust climb aboard this mapic carpet



are a smettering of nasty characters who seem intent on stopping Sinbad luffling his quest. Contact with these

The Vizier has entranced many of the Kingdom a resolutes to the come. This deptid looks a let upone look it is. Clook him every first he gain girre then step lack to just a the subbles he first

mater you'll need some kind of conterner and a search will reveal en old granny who gives you her thimble Put two and two together and Sinbad soon be reaching new heights. Don't worry if this seems too obscure to solve immedial ely, because when ever he needs one. Sinbad will be given an on screen due. This appears in the form of a light bulb above the cheracter's head and aressing the space bei brings up a message Sometimes this is a clue, at others it'll warn you of a hidden discons immediately ahead.

which is now weeping; to carry the

zooms around the platforms. He and mates at a speedy 50 frames per second and, if you ve got an '830 processor or higher, pressing F10 togoles him up to 60 foal Not only is he last, he's lairly soile too. He can leap huge gaps and do a snazzy runrung stide which, if he ducks at the same time, is extremely useful in avoiding low hanging spikes. Each of the nine levels is littered with these spines, as wall as acid pits, large toky balls and other objects which must be avoided at all costs.

objects and creatures saps our Sin of his vital energy, so either dedee them where possible or whic out your trusty sword for a swift bit of slicing Sphaking of energy, Sinbad starts off with a facily limited amount, denoted

Coupled with the background stuff

by blue rectangles in the left come: of the screen Every contact with a dannerous obsact takes awey at least one of

Fortunately, scattered around the levels are treasure chests which contain varying amounts of extra energy These chests are vital to his health and must not be squandered. Some house special magical amulets which Increase the total energy units Sinbad can have. They may also contain certain useful power-ups. including keys, speedy boats and weapon boosts - Sinbad starts of

with a family weedy sword, more of a penionile, really - but

tates levels to a longer. missile throwing silcer keep the various objects. that you find as they will almost certainly be put to good use at some point. Tepping the space bar brings up the inven fory and you can alter The objects that Sinbad's carrying in his hands according to need



The fower levels of the Vistor's Bying costle and printly cool. Well, schoolly they re frozen. Find the crampone or you'll be elitting around all

One of the main cluses of the game is the amount of vanuty between levels Not only do the backdrops chinge, bul also the style of game-

play, Level one to

the Caligh's dungeon end, apart from the guzzles us a simple distform game. Ilkewise level two, set in the forest. But level three has Sinbad

Despite these drawbacks, this is still one helluva game. I can recommend it to enyone with a love for platform romps who fancies some Ihing a little different. **KRISALIS E25.99**

a while Equally, the restart points for

when Sinbed is killed seem to have

There's also an odd mix of scrolling

been chosen with little thought

and flip-screen movement - why

didn'i lihey settle for one way of redrawing the screen?

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TEL: 0709 372290 RELEASE DATE DUT NOW PLATFORM IN HOUSE CONTROLS NUMBER OF DISKS NUMBER OF PLAYERS HARD DISK INSTALLABLE

44478% LASTABILITY PLAYAULITY 4485%

An shove-sverage platform romp, but lacking long lerm chellenge. **OVERALL 86%**

water maze, another shoot 'em up and these s even on Indiana Jones style mine cart rece GOOD AND BAD Arabian Nights has a lot point for it.

on board a llying carpet swooping

across the elees in a basic shool em

up Later levels consist of an under-

Both the codes, Simeon Pashtey, and the ertist, Darren Hebden, have obviously put a lot of thought into it Every level contains some nice comic touches, which range from Sinhard's preganous balancing act

when he s too close to the edge of a platform to the jumping sheep which leap up to smash into his flying carpet (and emit a plaintive 'Beel' when they got shot) The animation is lop notch as is the soundtrack However, there's also e lot miss

ing I would have liked for these to have been more baddies and a few more power ups. Despite the level vanance, if all seems repetitive after

nbad òci ace **SPRINTING ARAB** Sinbad is a ruppy little fella and

to ack rtoty

ilbh

Sne

Two News looks like it needs a little water. First enters to not



One of the functor sections to the game socurs in the Spiroks Castle. This is one of the secret recess and is a freel to line! The buffers on the walls act like giant springs and it is not the free orn piller to post -- Irog pinbatt



prisms to delight and selected you. The undisisting aplices shown above only ston, but they are a pain (I II leave you over where) nevertheless.



already allowy friend in a stippy position. It's very difficult to made extra hard by the use of light jumps and lets of uplane



CREEN STAR Faster than a speeding hedgehog, stronger than umpteen ninias. Jon Sloan sees if Team 17's amphibious antics are all

they're croaked

up to be.

characters on the Amige The hero of Team 17's letest pletform romp, though has to rank up there as one of the strangest. And he's brought a small, green, elastic blob to keep him company

Our help was once a hanyoung Prince and in love with a beeutiful Princess (aren't libey always?). Unfortunately, a wicked witch look exception to love's young dream and kidnapped the Princess after turning our hero into his current sinw sell. So off he leaged to the riverbank to drown his sorrows

Luckly for him a bottle of Lucozada happened to be finaling by and our intrepid hero plucked if from the stream and took a swip New 1 wasn't aware of this. but Lucozede apparently has a strange offect on frogs and turned this one into a super version of

leopers (Remember kirds don't try this at home or III have the RSPCA onto you ahorpish)

the mud dwelling

level you are choose to gamble all the credits you've serned or this it is no nowwell way of doing it, but only effective Apart from scent barriers there a saint lives

Endowed with super skills he lumps off to find line Princess for a quick snog and a bit of retrogression before kicking some witch butt. Yes, it is a crap plot but who cares so long as the game plays well?

FROG'S AWAY

The game is divided into six worlds each sub-divided into a number of levels. The levels are completed by collecting a set amount of coins, usually 99, explained as being a toll to scoess the next level. These he scattored eround the pletforms and, in common with the rest of the genre there are loads hidden in secret rooms But if finding the things

Superfron cardains lands of sections like this where you have to jump over a splicy pil at the cornect angle to grate all the coine. One emong move means instant death

wasn't hard enough, you're also up

egainst the clock. The time limits sell are not too harsh, however and can be increased by collecting the various Lucozede bottles that appear af pertain points. These also act as energy boosts and come in very handy 'oos there's oute a few has lies that drain your energy. As well as the orange liquid there's fresh fruit to collect which gives you a hefty bonus at the end of the section

To add to your woes each level is replete with its own selection of





A DAY IN THE LIFE Now that the Prince has formed a fillin grash what has in store for him? Mera's a few tants But we area handsome here should brow

Frogs halling to the ceda: Arexa which is the largest amphibian larnely arricanting for Mrs. of all living spanies. They are non-acterised by the complete absence of a full, the only second or to the being the Tailet Frey which reas to les making All frogs have extremely long and muscoles hind logs with toos criticaling points instead
 the neumal three. This predominal difference making the web-bottel wordere in large

Frage are gazerally sami-water charitary and are vary sensitive in habital shareas. Some

can herrow tale the med and go left suspended enteredied Boiling the dry season. Others, bowever, are diffed in great armbure by must a triarference with their agrees. The bulance effort to combal the return deptation in rambers due to predators and hebitat changes. Fortunelarly must large are long lived and thre have the opportunity to bread many times during their lives remperessing its these leases. Let's hope that the bero here changes back before he gate too amorgue, otherwise the Princess may be in for a bill at a shork



energy draining creatures. These

depending on the level you're on For

instance, in the Fernal (World 1) they

uppear as wasps, hedgehoos and

Ancient level (Westd 4) you il meet

hits minmoies and snaken Some

can be killed in the time honoured

tashien of jumping on their heads,

others ere completely irrentnerable to

your ettacks. Unfortunately, the only

sump and see. The only other way to

way to find out which is which is le

Superfrog's elastic bleb of a Inend

Once he's been picked up he can be

twown, boomerang-like, at enemies

and is especially useful for hitting the

Talking el power-nps, there s a lew other useful enes. The wines

enable froggy to stay suspended for

longer or glide turther. The drawback is that to make them work you have

to pumme! The tirebutton 'till you think your thumb's going to fall eff. The other pick-nps ere speed prils (fast and slow), restart pile (retnre here after yen dre) and a nifty invisibility

pill This turns the log invisible. except for his eyes, so that he can

run pest and through most nesties

including the swinging spiky balls!). Once you've found your frients Desiructo

Separtrog's flightpath

tump them off is to find Soud

Masis amongst others, whilst in the

nasties come in various forms

BONUS GAME

At the end of certain sections all the fruit, coins and time you've got are totted up end credits ewerded. These can be converted into points er gambled on a fruit machine to: more peints, extra lives or even level codes il s quile eccurete, too, as il's gel holds, nudges end even special features (We liked it se much that we've struck an exclusive deal to pni it on our coverdisk in the next comple of menths?) it is a pretty unusnal way it most have been thought up after a





PLAY TO WIN

WOOLD 3 WOOLD 4

eng night in the pnb. Still, it's good fun and makes a change from all that running end jumping The main campoley itself is

extremely leugh with a wall thought out learning curve. The levels start pretty simply in the Forest, pletforms are fairly wide and there even'l too many creetures to aveid Leter levels get a let tougher with the introduction of springs to jump on, nerrow lending spaces, swiches to hit in sequence end lands of bloody spikes. These letter objects are extremely frustraling as even the slightest contact causes instant death. They're made even more helr shredging by the lact that they're eften placed near to objects which slun freegy causing him to fall on them. Another monitorsmashing trick is the use of drop eway floors. These appear on later levels and cause the floor to disapgeer from under Superfrog's leet with no werning. This results in him being dumped back two or three screens just before some tricky obstacle course which yen've just completed

This is an old programming trick and

This surges organise you with a use ence on Supering a progress through the game. It looks good too but serves no oth ectul numpose

a rather dirty one et that, it simply to a meane of antificially prolonging gamegley and is a technique nell worthy of coders like Team 17.

SECRET WORLDS

Superfrom is a very polished product. possibly the best that Team 17 heve ever produced. Their eim was to meke a classic in its genie. The liver have deno, as it has all the elements worthy of such a little

From the Eric Schwartz intro right through every level the graphics scream workmanehio et you - inel look at how Superfrog's expression changes to one of grim defermination es he breaks into a run. The sound too is apt for the genre and the gamepley never less then gapping On a sequale point. Team 17

claim the game is compatible with all Amiges bull I found that there ere eccasional problems running it on higher Spec mechines, such as the A1500 and A4000. Problems vary, but they range from corrupt graphics en the fruit mechine eption to complete crashes. Nevertheless, this game gets my vote 3

TEAM 17 E26.99

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Each instructed entired floe this variable panel sectioned to these, which showe you how hungry and through they are and whetever thought floopers to be going through their head.





We've always said that Tony Dillon is teh result of centuries of in-breeding. In Maxis' new god sim we can prove it!

an'd be forgiven for thinking that Maxis latest simulation extravegenza, Sim Life looks almost exactly the same as Sim Earth No-one could blame you either once you've caught a glimpse of the manual, you find yourself under the impression that it's even harder to get to gaps with than its predeces or - if such a thing can be imagined! You would however, be wrong on both counts

To be lest, the two games do have a lew tors Like Sim Earth. Swi Life has no end point - you went find a Game Over screen

The start of the futerial Panelo Lios this sppear frequerilly, and keep you up in this software. In keeping with their philosophy of creating software toys rather than games, Made have aimed to make the package as openended as possible - you can literally do whatever you leel like

That however, is as lar as that similarities go In Son Earth you had In build the world, but the aim was to keep the plenet alive Syn Life turns - basel as no notsupe slothy ent once the world has been formed, for-

get about it and concentrate on the life forms By claverty the barros you already have, and creating naw per

hers more suitable ones, you have to try and reach your chosen goal. Upon loading, you are greated by the main menu screen. Everything

tooks fina and dandy - there are has e dozan presel challengas, from turning a desert into a forest to keeping a specias with a limited emount of males evolving together with a tuto rial and an experimentation mode Remember. Sim Life has no specific and point - these scenarios are merely examples of the sort of goal you can set yoursell

GETTING TRICKY

From this point, things get a little complex. Two pages isn't a lot of snace to explain something their takes a 200-page mannal to detail

how well you re doing. By clicking on the indi-vidual pictures, you can led out from many creetures you re currently leaking after.



narios anveries e a lée souctrare al écules

CO Depart To Forest Your sim here is to lede a herren wasteland and lare II mto a fued locest. To do no, you soud to stage loads of the more hardy glarts, and buyo they easilve As plants det, they decomings creating a more natritious bad for some all the weater plants

Detrie Of The Suxes Han manid a species with an 80 per cent lamela population exist? Have a year chance is had out. Remember, most of the bobles will be female also up after a law peneralicos, serie hiareding mutations will take place

Feest And Femine Yen start with a large collection of burbl-

vores and an even larger scattering of young plants it all starts well, dut a sixb.

excellent lessen in lea6 chein control. Steaming the previous scenario up a difficulty saich, this scenario refit ment sating prode-

lors to the senon Can you know a befores? Terrible Lizera What slid buppen to the dinesance? This apparament might just give you some idea Were they all wiped out by a certal, or a se the lood chain?

March Of The Mutants Creeds seems random games and those tham gat to land for the meetives. Weind and macky mutants battle for supremary, or all least unreival to the next generation.



tell in where you proude the protetypes for your life facine. The





The poolpot way to see how your life forms are petting along it

O Breught

Fire

O Comel

Aton oxessagem"

vertice like utilization control

fares of your world, but a curse for any

signifity that they no your coastal replent

With a direight co, no rate will fall, and

This can only happen if there ere plants in

The old Mazes lavourily, and the neelest

way in wise the alete close and start some

Randomly on arranges the plants and ani-



ve to

hall

turn-Ing a

pilic



Hude's Hems 43

40ave. Each of the three segments displays a the evolution of plantille, controlling adequately, but 410 give it a go Sim

Life is based on an extensive set of and survival. Each lifeform is broken down into dozens of categories. Irom the basic prototype genome, which dictates things like whether the animai can fly how much energy la taken np by loraging for lood end how many bables a has in a litter, to individual breakdowns which cover the sex of the animal, its various tolwance levels to hanger and thirst and the sorts of things it likes to eat You don! just create animals

editor. You are also responsible for

such lactors as how their seeds are spread and the sorte of shrub they evolve into. Every creature is based on a prototype gene, but their sur roundings and habital dictate how each successive generation will mutals. It is this toying with the mutation that makes ill so enjoyable

Thankfully you re not just thrown in at the deep and A full on-screen tulonal takes you through the basics of the game, from building e world to understanding the reasons behind certain animal behaviour. A box will appear on screen and ask you to do something, such as select an option or create a certain plant. Once you herve done that the tutorial steos for ward to the next stege, all the time keeping you Inlly informed of what you have done and the effects your

actions have hed. This makes gel-

ling into the game far easier

The game is windows-based, with information panels summoned vie s manu bar el the lop of the screen Being ported directly from the Apple Mac, the mouse control is highly insultive, pop-np menns end help panels are displayed by clicking on the appropriate Icons, end it looks a treat on the A4000 and 1200, Every control penel and displey window is in a completely different box, so the

YOIKS, WHAT A PERSONAL DISASTER!

Size Life nonlinea a arrestoring of dispaters which can be trippered by the player, or left let the compount is throw it at the moments when you could do without them.

Fingue A doubly vises is present from antreal to snimal wining them out or it good

STD A alrepte STD

Heal Wave There's nothing like global warming to meas up your signifie. A outsh beat ways increases piolal lemanulum framilically

Cold Wave Lice a best ways, only calden

A llood is grant for the sen dwalling crea-

mule in you world. (Christmann This places is ad developers on the globs and lole than ma wild

1 2 LES 119

screen can be rearranged to your heart's content, which is just es well as it can get very cinttered at times There are dozens of information panals to work through, and it isn't advisable to have more then three on agreen el once, il you can help it.

GOING DOWN

If reeding this review has made you think of a couple of things you would like to do, chances are you can Designer Ken Kerakotsiga has mede a superb job of the design, giving the user total freedom. Sim Life does everything it claims

to do, and although it's extremely technical, it never baffles the user with jargon. Its only real downfell is. of conuse, the lect that only a small percentege of neers will fully appreci ete what it can do 🚳

etr it might look complicated, but this little chagram ahawa you at a glance exactly what your world is comprised of.



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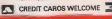
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Once airborne, it's best to delegate the flying duties te your co-priet, otherwise you run the risk of colliding with your fellew airmen in the lhree-plane formation. This meens that you're free to admire the beautiful green English countryside. which has been completely stripped el hills, towns, limms, and any other distinguishing

features that may have helped pass

WE'RE GUNNER DIF! I loon the time skip leature again, you can jump lorward to your first encounter with the enemy. This is

usuelly e gun bettle with a smell group of German Sighter planes. The B-17 would be a sitting duck, were it not for the varieus our turrets that ust about cover all the angles. You're free to swap yeur control between any of the gunners at any time Considering this is ene

of the lew 'action' stages in the geme, it's, leirly low en excilement Mest of the time, the bendés are no more than single pixels web bling around in the sky out of the range of your guns. When they do

come up close, they usually just shoot past in an instent. The controls ere no help either - not only do they react with a very noticeable deley but the ouns have an impating habit of moving in big steps. On top of that, the geme soonsers the disk informittently throughout the our bettles. Accurate mericemanship goes out of the window - realism has taken precedence

over gemepley ence egain It's ebvieus that Micreprose have put a fol of time and affort into-8-17 Some of the pre-light screens are excellent and before yeu get into the mein part of the game, there are plenty of details to keep the enthusact interested. What a shame, then, that they we come up with a very slow end uneventful flight sim. All the bells and whestles will never make up for the shortfalls in the heart of the game.

Even il e lew buildings ei hills had been added to the fendscapes, it would only make things slower Concessions to realism meen that you can't even try out a bit of trick flying when you get bored - well, you can try, but you Il find it a e ene wey tickel to death.

Flight sims can be fast, fun, and even exciting Unfortunately, B-17 is none of the above. It a all well end good going fer factual accuracy, but you've got to remember that you're actuelly producing a game. @



Nacient your states and it can all so borribly wrone. Remember

irration flight is hancer than it looks – fortunately, you can tell your op-sligt to keep on sys on a controls, while you gut your feet no settle titles, of tee. nome grainy bleck and white recon-

he year 1943 The place a USAF base in Southern England The Afres are gradu by nosing ehead in the fight against

the Nazis, but it's not over yet. American B 17 bombers ere pleving a vital role in the struggle, and you've just been assigned the job of Commander of the local B 17 team It. sales a grew of 10 to eperale the siano and it's up to you to make sure everyene does then bit.

AIRBORNE FREE

actore you get sirborns, you need to select your plane. You can either take one off the shell', or have a brand new, personalised one. Name your plane, spruce it up with some smazzy nose entwork, and it's eff for the mission bilef. The briefing session is made more tolerable with

neissence films end maps. Once you think you've swelleward that let you get a chance to customise the game to suit your skill level. There is en everell difficulty level, and all kinds of other parameters can be independently tweeked, from the levels of liek, to whether er nel the bombs ere fable to malfunction

So far, it a all going fine, but the first imtations start when you find yourself at the controls of the beast. Instead of lining you up for take eff, the computer makes you go through an exceedingly tedieus lew minutes as you law onto the runway. You can use the 'time skip' lunction le min Imise the boredem, but then yeu II probably miss the take-off itself which is about the most exciting part of the game, unly yeu get to your target.

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Time to the cross common view of the banelts - mare lints on the bodmit. Be prepared though, an they laurch sudden stracks



Make sure that you don't end no taking out your comredes in the heat



it's been around in one form or another forever it seems, but now everyone's favourite word game is set to hit the Amiga, as Tony Dillon discovers.

hen I list saw e Scrabble ompude garrie (writing by Leipure Gennus to the Spectrum almost 10 years agolt), I set to board and use e com-

puler to improve ou it? You dou't rumember thicking what a totally You morely add lots of options, politiless conversion it was Back menus and help and try to keep it as Then the tools to create the sort of terthful as possible Consequently Artificial Intelligence and the storage Arriga Scrabole lets you alter the capacity necessary to: all the possicolours ou the board, play the whole ble words just wereu't available, and thing in black and white with or withso you ended up with a very basic out music, play with up to three other version of the game that was only people or a computer opponent with slightly batter than playing alone 16 different sloff levels (the highest of

which uses a lot of strategy and trus

slightly better than playing alone Now we reach 1993. The base level Amaga has et least 1Mb of memory and there are chass programs that

can compele with Grand Masters US Gold have brought forward Scrabble once more and this time I can honestly say that it gives me a real rue for

my money
Everyone knows
how to play Scrabble
Intercrossing words are
laid down on a gud

rethin like a crassword with a cooroutcuted from the letters that meke you words and any special titles the little small be placed on Each league has several letter files and each time letty us one, it is explained with a unidom letter. Play consulted until a unidom letter. Play consulted and titles are un more like a lotowar from the bag Whoever has the highest score was And that's about it.

regist. Worsts are learned in the ber at the top, of the scenes, and teen drapped with the prouse to the pesition you want them. The ection's really notifue up near, as the bap amplifier and the number of swallasts spaces reduces cramatically to create nine letter words!) and use help if you like

Help? Yes, to aid you lu your quest for Scrabble superstaidom, you can get a little help from the computer. This comes in two forms hints and edwice.

Hints can be called before you make your move and when solected the computer looks at your title and the board and comes up with every sugic permissible at can which you can their browse through. Advice is let more aggravating though.

It you find the stee of semanne whispening in your east linings like "Oh no, you didn't want to do thai" or "I can thuk of a much bester word than that 'then you mad deflutely want to turn the advice off. After each move you make, the computer checks your

NO CHEATS

In the clot days, if you make not a word it drifted recognites, the Scrabbb program second as you is continued it static versual and you is continued it static view answer in good laby. For the native of local profile good make the legh mare table, it blod to play that now version the atoms you, only it is find but you can on longer what words they program descent lance. Hend you, with a versubulary of ever 130,000 words, you'd but hard a seemed in find a fortil

letters and theu tells you haw mauy higher scoung words you could have made. This might not sound too bad, but if really gets up your nose when you have thought lot hours, placed a sur letter word scoung you 50 points, and the composer tells you that there are 72 more profitable words you could trave placed! Asarph!

All things coundered though. Scrabbies a superb conversion of the oughest If you like the geme then of course you'll want to get it. Otherwas, well, if words are your thing, then you could find yourself using it to sharpen up those skills. Scrabble mey unt be to everyone's laking, but their as e purfect version of thing, but their as e purfect version of the purpose.



Above. Yes, yes, there's no need to rule 0 in.
After each move, the program can tell you been



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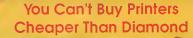


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PITFIGHT

Probably the best thing about Pithabter is the dia used screens at the start of the game showing the three plever characters imlaind They're actually quite close to the anglast ones found on the coin op - in fact, this is a larry decent conversion of Tengen's arcade machine Unfortunetely, that praise isn'i as high as it sounds. the ercade game was only



pretty everage to begin with As best 'em ups go, the plot for this one is dirtier than usual. The basic premise is that you're involved in some illegal backstreet prizefighting. There are no rules, no rounds and the last one left standing wine. You get to choose from three characters, Ty, Koto and Buzz who come from different fighting backgrounds - pro wrestling, marhal arts and kickboxing. Each of them has his own sol of moves which include a special one that's applicable to their 'sport', such as jumping spinning kicks

or body slems The arcade action is fast and furious, with fots of wicked objects to pick up and throw et your opponents, including knives, shurlkens and even motorbikes! The winning fighter gets pold a purse which contains a bonue for how

bruisily he fought, so it's no-holds-barried action all the way. As I said, the conversion has been carried out pretty well and the digitised characters look quite realistic. Unfortunately, too much ettention has been paid to the way they look when stationary, as they break down completely which things move. Too few frames of enfinetion have been used to them and, as a result, avaryone tends to jump around the screen in a most unconwinging man ner. This, coupled with the fact that you can ectually light on top of some of the background audience, makes the whole thing very unconvincing. As a full price game I would have penned the whole thing, but as a budget the, it's probably got enough to deserve a serious look it not an actual purchase

TERMINATOR 2

HIT SQUAD OUT NOW £7.00

If you've seen the film by now (and who hasn'1?) then you'll have a pretty good idee what this game is all about. It mirrors many of the main scenes in Arme's smash brockbuster, but inevitably letts to live up to the promise of its citlemena namesake

The player controls Arnie's character, the T-800, sent back in time to prolect John Connor, a soon-to-be rebel loader, from the muiderous attantions of a more advanced terminator robot. The T-1000. This new breed of assassin has a nifty shape changing ebility, which means he can turn into liquid metal whenevar he's in trouble

The first level sees the T-800 facing up to his enemy in an ercada that the limited and the joystick controls are pretty unresponsive. If you menage to survive this you're planked on the back of a Hotley along with John and have to cutrun the T-1000 in a vertically scrolling race Later come vanous puzzle sub-gomes, such as the piece-Amte's-lace

back together using sliding blocks more vertically scrolling chases and, limally, the scene in the metel works which is an exact repetition of the first screen II's a very



mixed bag which fails to get in any way whatsoever The animation is of very poor quality should avoid this

Money too tight to mention? Forgotten what a crisp new tenner actually looks like? Or even an old one come to that? Then fear no more -BUDGE your worries are over as the CU Amiga team of experts are here to select the best budget buys from the current crop of cut-price contenders.

Budding Scrooges read on... MOONSTONE MINDSCAPE OUT NOW £14.99

This game is pretaced by one of the most stirring animated intros tive seen. If may not be the beal enimetion or sound ever but their combination into one cohesive whole makes for a blood-curding infro

Set m ancient times when man were men and women were well women it tolls the tole of 'The Quest for the Moonstones'. You and up to three friends play knights on this quest, travelfing the lands and testing themselves and each other in mortal combol with



bands of hairy monstars. This is played out over a detelled map containing varlous oties to explore and monster's lains to ettack.

Movement le conirolled on this main map and you can travel as lai as the terrain that you're on allows. If you slop at one of the cities you can visit a tay ern to gamble for more cash to buy better equipment, visit a Mystic to be healed or have your stats increased. All very derivative stuff you might say, and I would agree. But theils where Moonstone begins to depart from the norm. When you etteck a lair or if you're attacked by one of the other knights, the viewpoint switches to a horizontally scrolling beat emup. It's here that the game shows its true colours, for it's one of the bloodiest games on the Amiga -Iterally. Every blow is depicted in full-colour gore (mainly red) with decapitations eccompanied by suitable squelching sound effects. (Don't worry if you're a bit squeamish as you can turn the gore off but, frankly, doing so lakes away the game's appeal.) The animation in these sequences is absolutely superb. and the backdrops over which you light are equally detailed.

It's so gapping to try and find factics to beat the other knights and monsters, as each requires subtly different attacking sequences. For instance, the mudmen rise up out the ground and try to drag you down with them. All it takes is one good blow end you're history, so you have to move quickly around the screen and use your longest range of sword thrust to keep them at boy. With other knights it's basi to start of a distance and throw a load of knives to weaken them and then get an close for a bit of good old fashioned hocking Fortunately, there aren't theil many types of monsters to beet.

This combination of strolegy and joyelick fleiting action ma Moonstone a winner. It may fack long-term appeal, but it's great fun while it lests.





HIT SQUAD OUT NOW £7.99

If you like your games couled in an extremely violent venuer, then Smash TV should be right up your street. Mrx sheet 'om up action with a team of beseball-welding thogs and you've got a good idea about what to expect here. An excellent conversion of the Williams' coin-op, the action comes thick and fast as yeu take control of a contestant in an ultra-vielant luturised game show. The aim is to collect as many different prizes as possible (such as videes, fossiers and microweves) while avoiding an army of mutant psychos who are after the greatest prize of all your lifet

The graphics aren't really up to much - you'll be disappointed if you're expecting the same quality as those of the com-op - and the in-game sound effects ere decidedly linny but for a mindless blast this really can I be bealen. Each room is packed full of prizes mortars, explosives, laser you into a mushy pulp. Get boxed in by ites let and you'll be hammered until you fall to the ground unconscious. Armed with a paltry machine gun to begin with there are various power-ups scattered around each room which can transferm your weapon into a shorthidice death machine. Be careful, fneugh, as there are also explosives scattered around each level and if yeu you've completed a number of such screens it's entere confrontation with one of the game's big besses. Hours of fun for all the family (especially if they're psychetic killers)

PIRATES!

Plintest was the first game that I had nightmeres about. When it first came out I epent hours glued to it, only to find the seunds of tapping waves and whooshing winds dominating my elesp, lee. This game is sonously addictive

You play fine part of a young apprentice captain sailing the Spanish Mein in the 17th century. The alm of the game is fallily simply - make enough money to cle a nch man and rise through the ranks of social and neutral class. Whilst this may sound easy, in practice it a bleody difficult. Fortunally, there are ven oue ways to achieve these goals, including visiting a port's Governor to be essigned vanous lasks or to leke a Letter of Merque, white surreplifously by ing to chell up his daughter! As any good pirate knows, fame and fortune

doesn't come easy The main action takes place on a map depicting your ship and the islands

of the Marn life. here that the saling is done fought. When you encounter and attack if yeu're given a close-up topdown view of the two ships, It's then e metter of who has the bet ter ship and sailing skills to

get in the nobi position te launch a broadside befere the enemy can respond. These battles ere not controlled by any state and require you to master the meuse and read

the winds if you went to come out the victo The mental strategy is fulry demanding too as you have to juggle loads of factors if you want to keep your crew happy. These include the number of batties you've won, how much gold there is in the hold and the amount of lead

available. Remember, a happy crew is not a mulinous one! if I had any idea what life on the Spanish Main was like, I might be in a position to say that Pirates's on excellent simulation. As I don't, all I can say is that it's an excellent strategy game. My entry grumble is thet some of the are matters are looking a little dated now but that by no means defrects from the gameplay. If you buy it you should be prepared for some

LEGEND MINDSCAPE OUT NOW £14,99

There are few decent RPGs which use an isometric viewpoint to depict the action. The enly other one that I can think of le Gremlin's Heroquest. The main reason for this is thel it usually defracts from the more strategy-based elements of the game. Forumstely, Legand doesn't left into

that trup The player takes control of lour characters who are on a quest (aren't they always?) to rid the lend of Trazero from the hordes of chaos. People are being transformed into indeous cusatures and are attacking the rest of the population, and it's up to you to find a cure for this avil What this boils down to is the usual durigeon bash, combined with sor strategy elements as you decide where to place the cash that you ve won to pey for the country's defences

bunch - there's the Fighter, the Band, the Assesson and, best of all, the Runemaster, it is the last character that transforms Legend from just another RPG into semething really special. The magic system involves mixing varietis runs and elements into spells. The manual is deliberately vague on what combinations to use and invites the player to by vaneus options out ler himself. This is quite exciting as you cometimes den't know what the spell does until you use it in combal (though you are given some good clues when it's mixed). And when you get into battle, either in the dungeon or on one of the roade leading to the towns, Legend really begins to shrine. Each character, although Sny, is well animated and the action is graphically portrayed. This is quite a benus as any en who's played Heroquest can tell you. When your Runemaster casts a spell you actually see 6 fizz acress the screen and explicition this chest of an anemy This action takes place in real time, so some magical preparation is needed before you enter into bettle. Fortunately, the righters lend to look after the mealives

Dotted around the dungeons ere valious magroal terms which will increase your party's strangth. There's also pots of money that can be used to buy more while you're left to control the Runemaster's spelicasting weapons and spells or help forthy the towns against evil. The cash comes of a price freugh - expleration is fough as there are many puzzles to solve The combination of realistic combining existing exploration and stretegic thinking make Legend excellent fun. It's one of these genes that you start playing at six o'clock and then find yourself at two o'clock in the morning wendening where the time went. Buy it new



SQUAD OUT NOW £9.99

n In

allel



Wrestling's come a long way since the days of Warld of Sport and Saturday effernoon lag metches televised live from Doncaster town hall er likley swimming baths. The beer belies and swimming trunks of our home grown wonders (end folten 'wondered' about Big Daddyf) have been replaced by the rippling muscles end Elvis-style shewmanship of the USA's World Wrestling Federation. The ection's still as one crap as ever, but it a entertaining crap

Unfortunately the same cannot be seld about the computer game. Able to cheese from Hulk Hogan, British Buildog or The Ultimate Warrior, opponents include the likes of Mr. Perfect. Sgt. Slaughter, the Mounty, Wartord and Million Delfar Man. During e series et live-minute bouts, the elm is to simply reduce an eppenent's energy ber by knecking them about the ring. Seener or later, you end up in a clinch (el the nen romentic, fist in-your-face variety), a stand-off where the only way out is to waggle your jeystick laster than your opponent. De this successfully and you'll be able to pick him up and hurl him across the ring. And there's action outside the ropes,

o - There's elweys e handy chair to pick up and emack over someone's head Sectiv, that is about all the gemeolay there is. Billed ac a two-player game, this is enly possible in practice mede end even then your opponent will always be Mr. Perfect. Not bed fun while it lasts, but you'll soon line of this dreb and unimagnative floanse

ROBOCOP HIT SQUAD OUT NOW £7.99

Inhead returns in enother argy of ultre welence in future Detroit clowing on from the incredibly successful first game (which stayed in the arts (or more then a year effer its release). Robocop 2 is a last and trentic wels: three platform shoot 'em ups, two puzzle games and a couple of oslage sheel-outs. The shoot 'em up sections typically involve the player in collecting canisters of the addictive drug. Nuke before they fall into the lands of crimmals, and freeing a number of hostages. Blocking your form obstacles. Power-ups are in plentiful supply and include rapid fire, scatter shot and three-way lire emengst ethers. There's also e time limit, so you left to reach the end of the stage in time, you're placed back at the wart of the level. Puzzte sections involve Rebecop in a race against time to again his memory. This is done by collecting Robo's memory chips on e praphic representation et a circuit board. Roque chips block a player's progress and you can't double back or pass through the same lecation wice. There are four such sections to got through, each one herder then the list it works well but can be a little repetitive. The shooting gellery stages evolve calibrating Robo's gunsights by shooting criminels as they applier at windows It's very similar to sequences in the first game, ellhough it's hard distinguish the shepes at windows end the controls ero sluggish. The

sucsequent levels It's ell entertaining stuff, although the Robocco sonte is dreedful and has seveloped e minoring welk which makes him look more like John Inmen Ihan the ultimate law enforcer. The final controlletion with the new, improved Cam is a bit of an enti-climex, too, as there's ne great difficulty involved in blasting him to pleces - it just takes an inordinately leng time! But Robocop is still an eddictive blast end there's certainly a lot going on. The mesh of garning styles can be a little off-putting, but if you





All the thritis and spills of Major League basebell can be yours with this fun but flawed bat'n'bell geme. Festigning ell 26 teems from the Majers, most of the rules of the real geme have been included and each player has their two par licular girenoths and weaknesses based en ectual pro stats.

It's not merely e question of standing on the home plate and spraying the ball in all directions, though You have to carefully examine the strengths and weaknesses of ell yeur players and make limity substitutions. This is particularly important in the case of prichers. Starting plichers have more stamma. Then relief prichers, but a careful eye must be kept on the speed at which they throw the ball. As soon as they slow up, cell en the subs.

The geme offers a choice of playing in the miner or major leagues. It's best starting eff in the minors to get some much needed batting practice. It's quite herd to judge pitches at first and the majors will hit you with so many fasibells. you won't know what day at the weak it is. The petcher has a number of throws evallable such as a slowball, fastball, curveball or normal speed pitch and can be made to jig from side to side to accentuate the ball's angle. Batting is merely a question of positioning your player within the better's box end timing the swing of the bal to meet the incoming bells. It's a bit of a hit and-miss affair to begin with and things don't Improve much, even efter e couple of hours of practice! There's little Indication where the ball will go, or when, so it's really pot luck il you menege (e hit the bell fer e home run The enimation and graphics in RBI ere excellent, it's also very tast. The first

time you menage to collect a ball, throw it to a baseman and leg someone out as they ettempt to slide into base gives a real sense of achievement Unfortunately there's no league system so matches are only en a friendly basis. Some of the excitement of the reel thing is lest as a result - a series of friendles becomes mildly imieting when you could be marching up the league in pursuil of e pennant, the play-offs and a place in the World Sense. Another quibble is the deceptive engle of the bell ence it's been hit into the air. It's elmest impossible to second guess the direction it's going to travel in until it starts to drep and by then the eppowing learn are halfway round the bases Originally released on the NES, the Amiga version of RBI Baseball is just a

good as its console cousin, but that's not saying a great deal. It's fun, exciting, but ultimetely frustreting

ORM MASTER GAMES WORTH PLAYING OUT NOW £12.99

If you re alien of strategy sims, this game shouldn't be missed. If you're not then it may turn you into a lifetime convert to the genre. Storm Master combines an nonsuel scenerio, some excellent graphics and an obsy-to-learn control system into en absorbing geme

The player is cast as the new ruler of the wind-swoot realm of Ecilia, which Is in the middle of a war with its neighbour Shorkannia. You rule with the aid of nine councilors who must be kept happy if they're to remain on-operative. Each has a different role some more important than others. The Eaclesiest for instance, can predict and sometimes control the flerce winds and thus mands much power and respect, whilst the Advisor simply records the state of the Kingdom.

The main aim is to destroy Sherkaanie's seven chies, whist preventing them from destroying yours. To achieve this gool you il need loads of flying ships and lots of men, it's about now that you realise the size of the task that lies ahead and the ettention to detail that hes gone into the game

To build one of the four types of an ships you'll need raw meterials. The come from the mils, which have to be constructed in specific sites to produce the relevant materials. If the mills are non the forests then you'll get a lot of planks and if they re near the plane you'll get wool to weeve the sails with. Every decision that's made in Storm Master has a long term strategic consequency, so you'll have to think carefully before clicking.

One of the best sequences comes with the construction of the air ships. You not only have to choose a ship type, from the sleek and fast Ikaar to the bulky Ngowe, but also how to arm and propel them. This bil is quite tricky, because if you don't get the lifting weight right, when it is tested it'll crash space tecularly with complete loss of life (and all the cash that went into building it) Once battle commences you can choose to take control of the ships in a 3D combel sequence using crossbows and categorits. Normally this part of e strategy game is very weak, but here the action is thick and fast

The attention to detail and overell playability are superb. The game looks good and demends a lot of deep thinking if you're to





This one takes its name from the jec time T.V. show which features a bunch of hapless kids transported into a computer generated dangeon. They are guided on their various guests by Treguard, the Dungeon Mesler Essentially the whole thing is tike some cross between a gome of Laser Quest and a Virtnal Reality trip - only not so good. But it you re hoping for a direct conversion of that show then you're in for some disappointment, which is agod news for those of us who hate the thing

The game superficielly resembles the old Dungson Master style of RPGs, with you taking control of four disparate characters and viewing the 3D world from the lissi-person perspective. Here their arm is to complete four gnests (as insue) read 'dinnocons' for 'gnests') in the search for fone megical objects which are needed to do bettle with the evil Lord Feet. However, this resemblance is purely superficial as the game plays much more like Tony Growther's earlier venture. Captive

As in that game, all four characters stats can be viewed individually of in e group a leature that's extremely useful when one of them is insured or weighed down. The graphics too are very similar with some rice individual tonches, like the plant gots strewn around. Unfortunately, this is one area where the name could have been improved as the limited colours lend to make some text very difficult to reed, especially on T.V.a.

The quests drop you straight into the action so there's no time to get used to your team before they have to start fighting the venons monsters Speaking of which, these villains pie, for once serv-intelligent and will not to nip round the nearest come; and wall to pounde once you come out of the room. Also, the puzzles are quite bizarre, perhops reflecting Tony's strange

Hoving said oil that, I quite liked Knightmere. It is very difficult but thei's one of its credits. If you lark out the cosh it's nice to know that you'll not only enecy playing it bir will still be doing so weeks 819





Fer into the future, when himsenty gets fired of doing ell that boring paperwork AROD7 is invented to take care of it. Unfortunately, it's a learning computer and soon decides that it is humonity that's causing all the probleme. So, using a revolutionery bio-mechanical hit squad it begins to decimeto the human population Before it's loo late a rebell allience is born and in a lest-ditch attempt to save Us all the leader pops his beam

into a transformer-type robot and seeks out AROD7. Yes it's another excuse for a horizontally scrolling beat 'em no You take control of the rebel robot, which can transform seelf into three different beasts - on endicid is dinosaur and a

tank - each of which has completely different abilities. This



choosing whol lobot to use to desitoy the corrent screen e nesties. For instance, only the dinosaur's fiery bresh can destroy the swarms of allen bees, whilst the tank's guns are the best weapon to some beasts The main sprite is fairly big and reasonably well drawn but, the price you pay for this is losing all speed and playability. The joystick response is incredibly slow and requires pixel partect placement to

te one of the moves. Altogother, this is a game to miss.



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Enable may bligs for Santicula Manifer Sertinel's strategies

HOME 3

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For tips that are hotter than a double strength vindaloo look no further than CU Amiga. Handle this page with care!!



DALEK ATTACK

May must be the month to level codes. Type one of these m whitsl playing (molude spaces) to time warp the Doctor to the next level

From London to Pens Day Of Beckoning

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HARLEQUIN Meny Ihanks to Tom Wörner Irom Galway for this ace cheat to an excellent platform romo. As lar as we're awere this le the first time that envone's spotted this one

Guide the Herlogum to the Jigsaw puzzle section whitst carrying the space hopper. When you fall from the kile select the enece hop-

HISTORYLINE 1014-1018 Here s all the level codes for single

all the artillery in Iron of the door. player mode Surround them with your other units and place all soare ones made the



targets, once they've been hi move them inside for repair On your attack phase only use the entitiery and shoot enemy units that are nearest to your penmeter units Generally, shool down his arromit first as they pose the biggost threat. The computer rarely puls damaged plenes m for mosic, so they Il soon be reduced Once the arroraft are put out of action

To win most scenanos position your attack the artifery, then oo m to finish hrm off Thanks to Paul Kirby from Leeds. He was a game across to the point where you're walking on eir. Bun left until you can

forces in the following manner Retreat to your buildings then place per and jump up to the lower of the

22 Masul

two pletforms ebove you Disengage the space hopper and iump across to the other platform, then leap over the low wall. When you lend, keep on firing to see where the around is end move

go no further then jump up and you'll hit en invisible werp. You'll be promoted to insert disk one and now you can sit back and watch the end sequence

FLASHBACK

For those of you who've made I this ler, here's the solution for At the start cimb onto the ledge operate the lift up, take our out, kill alren, go up, nghi, operate lift up, go right, operate switch, go left to replemsh

enargy if needed. Go back to screan with alien on and go right, operate lift down, kill alren pick up key and use on lock, operate lift up Then up agem, save geme. Take one step beck from the save game point then roll right three times to get past the sime. Next, go

down, use the key on the lock, stand on the adge of the lift then operate if up, use the receiver so if goes down the hole, then use the transmitter. Then kill the alien and get the receiver back, shoot the eye thing and watch out to leser beams, go to the lat left in the same morn and use the receiver equin, then use the transmitler Gelihe receiver, go right, drop the receiver by Now go left till you lind a save point and save the game



Go left as far as possible to replensh your energy if needed. then go down Next go right, elmb on ledge and shoot the thing in the middle of the room then go to the opposite side and repeat the suma Repeat till one of the things on it slops bealing and no allens come cut. Go nght, operate the swiph, oper ate the lift up, go right, operata the lift up, place the mouse on the beoping object and an alren will appear Shoot the alien, pick up the key he dropped and use it on the lock. Operate the lift.

down, go right, kill all the aliene, then roll right past the slime. Go to the lar right and when you ere commanded drop the atomic bomb, operate the switch and use the transmitter. If the screen hean't started shaking, then use the object called '75' and go to the lift which is epopoximately in the meddla of the screen, Finally, stand on the lift and operate it up and you will be greeted with a superb end sequence

Meny thenks go to Gavin Kay of Shearness, Keni who wins a gema for his solution

Stand by your joy. VS. YIT-U sticks! Team 17 are here with a fistful of hints and cheats for the meanest, moodiest beat 'em up in

start, you bunch at tily Irvered wimps - if yeu're still struggling le get in the same ring as Max then we're here to transform you inte a champien prize-fighter. No metter if you're a weedy six-end-a-hall stone well lettuce the following player's duide is quaranteed to make you kind of the ring. In order to keep things as simple as possible, we've based our player's guide around Nik, although

town.

First up for a harm menn' is the Billy Whiz of his gener ation. Yit-U may boast about his special technique", but he's nel as fast as he'd like to think. He's fairly easy to beal if you light detensively, i.e. block his punches and only attack when he uses his power speed. Use a combi nation of Mid-Kick and Sliding Kick while he's charging dewn on you

VS. NINJA Aerial attacks are knocking the sluffing eul el Nîrija After you've successfully chepped him up. follow this up with a combination et Mid end Law Kicks When Ninje uses his 'Deeth Roll , block and counter with a Mid Kick followed instantly with a



So lai your epponents heve been a particularly weedy bunch, but things start to hol up when Kossak enters the fray. He possesses awesome strength, although he moves like e slug welking through Golden Syrup Wall for Kossak to come to you and when he gets close, fire off multiple combinations of fast ettacking moves. If he manages to get in dosi and sterts his 'Dnite: Killer' meye. immediately counter this with a Mid Punch followed by a combination of Mid



VS. DUG

well with the other one-player characlaid is about es lough as а зорду piece el toesi. Starl off with a couple of living kicks to back him into a corner, then follow up with a combination of Mid. and Low Kicks. Once you've toppled him le the ground, jump back and wait for him to rise le his fael. As soon as he s standing again, jump lenward with a flying kick and then hit him with another combination until he talls over again. Repeat this method. until he's beeten. Dug can only really cause any trouble if you give him eneugh time to perferm an 'Eerth Tremor' Il it leoks like he's about to same methods as these that you bull ene eff, jump into the ali just as he's about to slam into the ground and then hit him with a Low Kick. That II leave him winded so you can



Reundheuse Kick This lechnique will

be a success three times out el lour

VS. MARIA

e special move called the Flemenco Fury whereby she spins around until she hits you with a devastal-Ind force. If she tries this when she's at the coposite end el the screen, held down your lire button and unleash your 'Inner Energy Bolt' which will put an end to her dancing career ence and let all Apart from this tip use the



VS. DAN Be wary of Dan as he has exectly the same strengths end weaknesses as Nik The enty exception is that his power up is slightly laster than yours. When Dan is clese and iumps up or over you counter with an uppercut. This is a particularly effective move and will knock him off his teet end give you time to think out your next move The best way to firesh him eff is le jump in and take the fight to hin



ters in the game

Se here's Nik. Being the leader et a local gang. Nik s had plenty el practice when it comes to inserting his hend in other people's laces. Decked out in apped Jeans and baseball cap, Nik likes to think el himsell as the ultimate street warner. Such is his hatred for his elder brother Dan that he can channel his rage into a boil of pure energy with devasteting consequences. Yep, he a one mean muche just be thankful that in this

most of the techniques that we're about to divulge should work equally





VS. LORAY

an awasome weapon Buddha Fleme* The √ny way el

VS. JUNIOR

beating him is to menni en

ment for one second. Joint in and

watch out for his special move - The

tack ess. A word of warning though

Batz - or alse you'll end up flat on

A boxing champier.

Junior is about as

come The

a Stiding Kick a Flying Kick over the

Buddhe Flame attack, tellewed by a combination of two to three moves in suck succession and then a hasty wheat Repeat this method until he's sunched out of the ring. This mailted . take some time to mester, so son I give no ofter a tew deteats



Mike mary look like the gentleman el the pack but he sure doesn't fight like one Treat him in hendle Junior but

with a little mere caution as he s slightly faster. Jump in and unlinesh a combination et moves, block notil he attempts a 'Whelwind Punch' or Whirlwind Kick , then let him have another tearsome combination et



VS. MAX/T17

This guy is as fast as Yit-U and nearly as strong as Kossak It's also impossible to throw or kick him to the ground, so he's always ready to attack. Keep things simple bleck, attack block And remember, once you've detested Max yen've got to go through it all again as his skin pinels eway to reveal the steel-like muscle el the T17 man-machine. Jist es leuch as Max The T17 character should be Ireated in much the same way - re with extreme caution Don't gel boxed into a comer, otherwise you'll take a pasting. Kick low and fast to keep the android off balance and then tellow no with a quick succession et chest-high body blows. Il this deasn't work, roll out the preyer



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What do you get if you mix shoot 'em up action with some brain-straining strategy? A bloody hard game, that's what. So here to help out with Renegade's The Chaos Engine are the Bitmaps themselves.



PARTNER UP

Before you start to play you must choose the team to take on The Engine, Here's a quick chart to give you a hand. Remember the more you spend on the characters the less you'll have to improve their stats with.

	inaa yo	u		maprove a	icii stats with
ı	Character			Dorneys swinted will an province opti	Domings contact with full gover-ups
	Brigard Matterer Earliever Havelu Thug Preacher	2769 2760 2500 2500 3100 3000 2500	Riffe Satting Flamor Caonon Shotyes Lightning		36 26 30 44 48 27
ı	Choranthr	Max no. of Bulleto	Door ate Vereigh o		
ı	Brigand		Depresia		Shot burst, Malatev, Altract
	Mirrornery Rentitioners Navette Thing Prencher		Rover Alteres Depends Nover Alteres	en penaur-up lavet	Bomk, Mirzeo, Finat Ald Hep Aton, Reputert, Paly Power Bycomilla, Shot buret Motolov, Air burst Finitert, Map, Shield, Frence

nextening damage capital to a lactic of the number of bullets stort. So the ir causes 27 damage with \$ shot, whereas the Tang free 7 bullets which 9a 7

When you're citif gutting cood to play, showe the Empant or the Marcedary or the human controlled character (RCP) as they're fast and warrattle, As far the computer so threlied character (CCP), altered either the Continues for the open and may, or the President to Me little as Att.



GENERAL PLAY GUIDE When you sal out, use the map as often as possible as it mey reveal

secret rooms. It's also useful for lindmg out what a set of keys does. Use it before you pick them up and then afterwards Try to collect all the silver keys

that you can as they open up the exit route and can make other vital objects appear Gold keys open up secret rooms or bonus areas. They also have a habit of desappearing if left alone for loo long. If you pick up. one set they may make the others disappear, so don't worry it you can't find them. Bonus rooms often conlain lough monsters so don't tackle Them until you're more experienced

If a leval has more than one axit try to make your way to the one with the higher letter. The higher the letter, the better your starting position will be on the noxt lavel

You It need cash to power the players up. Pick if up as soon as the monstars drop it, as it quickly disappears. When you get to tha equipment stage buy weapon power ups and axtra lives to yourself and intalligence for the CCP Extra lives ara awarded for every 7,000 points

Finally, not everything is as it seems Bonus'secret areas may be concealed behind walls/hedgas and can be accessed simply by shooting the obstruction. Also, some monster penerators are actually warps to secret areas - if you kill all the mor sters and the generator remains try lumping mto it

3. The silver keys open up this hedge. 4. Collect the gold keys here. 5. Shoot these nodes to open the



the loss of the earne sharts. Also, we we been is suctained with social thre month Untertainting, most of them are not worthy of publication. This is because the sedes are early specific to the characters that was re playing, the score they've emussed, how many power-was they we got, she Portanately, one or her of you seedled some very nastal sodes which give yes lands of cost annivery you to get 30 lives, full power-ops ste. The downside of this is that they anistocally limit you to the characters that they erests - still, you can some pials the name with them so here pass

Ting and Prescher, World 1, apprex 50000 cosh - Thug and Prencher, World Z, approx 40000 mask Thes and Prougher, World 4, names 30000 costs

Brigged and Merognary, World 4, approx. 20000 cash - Geoffernes and Newers, World 1, spores, 30200 sent -They and Gentleman, World I, approx. 20050 cash Brigand and Mercanary, World 1, approx. 30000 cash - Moroexary and Gardiaman, Warld 1, suprex, 45000 care.

Many thanks go to all those who sent codes in, hat especially to James Shiring from Cowinidge. He was the first oue to full us unto the union that gives you take of each. If he writes to we it send him a game (sorry we obtain take your address).

" WORLD I LEVEL 1 - MILE AN

Shoot this node tirst
 These silver knys will appear once the node has been shot. A bridge will

appear directly below them.

3 Collect these gold keys to creete the senes of bildges theil leed to 4.

Collect the gold keys here to create another set at 5
 These gold keys are used to create the bridge to the east. Thus giving eccess

la e bonus ercz 6. Silver keys here: Collect them to creete e bodge to the west

7a II you take this route you if have to battle hard 'doe if' the level. Collect the gold keys at the end and retrace you

then go north to the node.

7b. Take this route south to the node instead of the route described in point 7e.

8. Shoot this node to open the exit. If you can't reach it collect the keys from

Shoot this node to open the exit. If you can't reach it collect the keys fit point 8 or drop a special weapon into the pit to activate it.
 Collect these gold keys to create steps down into the node pit.



The only way to get to this node at the end of the hings world is to run straight for it ence you're en the pisteau.



passage to the north will open up 5. These gold keys shul down the monster generator next to

Collect the silvor keys here to open the way to the node at point 8
 The silvor keys that are here cannot be picked up. Shoot the node to reveal silvor keys at point 9
 Celect the keys also not good the next section and reveal the poid keys at

point 10
10 Collect the gold keys here to open e bonus aree to the west.
11 Pick up these gold keys and on the way back north shoot the piliar en

11 Fick up these gold keys and on the way back north shoot the pittal enthe left with the face on it to open a secret area to its right.
12. Collect the gold sing from here to warp the selver keys next to you. Pick

13 ander this mode and men library the series of good rings to the silver all point 14.

14 Prick the silver keys up to greate steps to the north. Go up these and

15. The gold keys here can only be collected if you run streight here fi



WORLD 1 LEVEL 4 - THE ROCKIES

1a. If you followed the instructions for the Ring sevel correctly you'll start here. If so, collect all the goodies and then go up the starts to collect the all verifies and shoot the node at point 2.

1b. If you exited the Filing level from soit A you'll start here. So east and utter steps to collect the silver keys and shoot the node at point 2.
2. The allier keys at point 2 will open this pressage up. Go through it and head east to the warp hole in the nedge, Jump in to be transported to excent goodle organ. You call you've obsered the room out you'll be betterport.

Collect the silver keys from here to create the ones at point 4.

Collect these allow keys and they'll create the steps up to point 5.

One have shoot the node to the sout and a set of eliver keys will appear
from the law to create the store at exist.

Collect the keys to create the steps at point 8.

6. Climb the stairs and proceed along the ledge collecting the bomb to shut down the bestle generator.

7. Pick up these eliver keys and another set will appear just to the north. This will happen four linear be cereful collecting them though se the thumpers above you line directly at the places they appear. The final set will be placed the places they appear.

In case, skepe to the Colors, to obtain oil the pit string is ground liveroom. A formulate liver does not calculate on all the pit string is ground liveroom. A formulate liveroom to calculate on the case of t





These mutaries take a lot of shots to dispens at Hide around the coloner and shoot and nat.







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ULES OF THE INN



LURE OF THE TEMPTRESS Wales is, according to tradition, o land of dipports.

dark mountains, and mighty wizards who can solve almost eny problem you care to mention Unfortunately, Andrew Sharp, who also lives there # not quite so clever. Heving successfully left the caves in The Lure of the Temptress, Andrew Is supposed to get into the castle and deleat the halled Skorls, but instead he finds himself wandering around the town unable to find a way in



being a Peoping Tern does have its rempensations. Pay spe-our stantier to the actions of the Short guard when he visits the local shop, and then you it survive in The Lure of the

The Shane replies. Heve you had much experiance people of through other people's windows? I encasely hope not, but now's the time to try. Before you can make any more progress I suggest you lotlow the wandering Skorl guerd and peop through the window of the local shop when he goes inside instead of getting the usual cheeky sign from the shopkeeper you'll now find out something to your adventage

HE SHRINE OF KNOWLEDGE

Draw peer and ask your question. Don't be embarrassed, even the most noble adventurer is sometimes sluck to a clue. Behind the velvet curtain is the Shrine of Knowledge, where all secrets are revealed and hearte are laid bare.

MONKEY ISLAND II

Adrien Nye of Bath is so desperately short of underclothes that he is even prepared to wear old prates' penis - al least he would if he could Ind some Despite the fact that CU Amion has elieady ellempted to give a blow-by-blow solution to Mankey Island II, I continue to receive pleas for help with this mega-adventure. To complete the list of Ingredients for a voodoo spell, we require a piece of Largo's clothing, but Adrian can't haure out how to get some

The Shrine replies it's going to be very difficull to get any of Largo's clothes, as it is a well-known fact that pirales only change once a year - whether they need it or not! Belone Largo will remove anything, it will need to be healty dirty. Pay a visil to the men of low moral libre silting next to the laundry end ask them for the bucket which is hanging from the ship's stem, that s the blunt end.) You'll need to ask them very prettily, but they'll give it to you in the end. Take the bucket to the swamp and till it with mud. Nip back to Laign's room and place the bucket

be Irested to the sight of Largo having a mud If you now follow our muddy pliate you'll thad see that he takes his shirt to the laundry and collects a licket. Largo will now return to the ship and hide the tickel behind the door in his cable

above the door. Hide behind the screen and you'll

INDIANA JONES AND THE LAST CRUSADE

Some adventures are really dongerous and Instant death awarts us around every come: Hoppily I have arrived 'just in' time to help 'Justin' Aldereft who is 'just about to shool himself with frustration. Justin is finding that it's pretty damp beneath the streets of Venice and unless he can find a way to drain the loke this will definitely be Indiana Jones' Last Cruesde. Ino lower corridor there is a wooden plug in the roof of the cave Justin is prelly sure that his solution centres around this object, but he hasn't a clue how to remove II The Shrine replies. Retroce your steps and

find the skeleton which is fied to the wall. If you >>

OPERATION STEALTH

More than one adventurer is drowning in e see of troubles beneath the wayes of Tolworth linds himself trying to imitate girl - and failing miserably!

he Shrine replies. Are you wearing o bracelet? I'm not trying to cast doubts on your manhood, it's just that you have no chance of escaping from e watery grove unless you have previously bought an inflatable bracelet from the pediar on the beach. When you first enrived in the country you went to the bank to

exchange your money for the local our renov, didn't you? Well, you must corry out that action twice to change all of your dollars into pesos. Once you've done that you'll have enough bracelet when you are captured (and very letching you il looki), you can operale il briefly, just before you are thrown overboard. Once you are in the sea, wall unlik you reach the bottom, then operate the brecelet again. This action will break



In Operation Shallih you'd have to take a few stree in the ecsen, so it

your bands and let you swim free. Head for the

A word here to lones MacDonald from Scotland, who complains thelihe can't swim out of the underground cave before he drowns. The trick is not to do the trip in one go, if you examine the overhanging rocks carefully you'll find a law places where you can pon your head above Water end lake a breath.

examine the poor wietch you il find that he has a hook where his hand once was (I believe he died as a result of ploking his nose } Teke this hook and use it on the wooden plug. Now, with one mighty lesh of your bullwhip, you can pull the plug from the rool and drain the lake

EYE OF THE BEHOLDER II

Standing in the dim light of a flickening torch is an adventurer called Tony Wilson. He is localed somewhere on the tirst floor within the Temple of Darkmoon, he's in a strange room which can be found by smashing the black statues in the alcoves until you discover the secret button which is hidden behind one of them. Press the button and you will lind the way in. Within the room, each of the four walls contains a niche which holds a precious gem, and in the centre is a circle of soft ground. The light of the torch relieds of the gittening gems and off the glazed eyes of

Tony Wilson, 'Wheil do I do now? he asks The Shrine replies: There are many strange tasks which you must engage in within the dark confines of Temple Darkmoon, and gardening is one of them. The room you are in a easy to get Into, but difficult to get out of First collect all of the gems and place them in one niche - this will reveal a passageway Repeal this Inck for all four wells. Having been down the passageways and collected all the goodles, return to the cen-Irel room. The soft ground you speak of is just the place to plant a seed - a "tropelat seed" Your claves brain should have worked out that 'tro polel is an anagiem for leleport and that's how you'll get out.

SIERRA CHEATS

The early graphic adventures from Sierra were really great games and they came with a hidden secret which one reader has written to tell you all about. Richard Parris from down under in Neighbours Land says that II you press All and D at the same time during a Sierra geme you will be able to enter the Sterre Test Screen. At this time you can type TP to: Irensport, or GET

matches from the guest room, the flower

from the jungle, but no bikirs top to hide her otos: There is one other

top is lying on the bottom of the swimming pool of the cruse ship. Next time you find vourself at the baach without a full bikini I suggest you send us a photograph to: the

LEISURE SUIT LARRY III

Can there be anything more trustreting than

arriving at the beach only to find that you've

Roberts from Clwyd has been to the barbers

left one part of your bikini at home? Miss E.

and hed her har dyed blonde, she has got the knile from the reclausant, the soap and

lim's Adventurer of the Month board, incidentally, for those adventurers who can't even board the ship because they can't find their passport, I suggest you examine the trashcan outside your home

OBJECT in response to the grompi New Room. or Gel Object you can type a number and the game will either transport you to that screen or give you the object you ask for

The Shone replies I knew that I just didn't like to say Of course the real problem with this cheat is that it only works for the old Sterra games

MONKEY ISLAND If you were only 11 years old you'd lihink you'd

have enough frouble just trying to get your homework ready for handing in on a Mondey morning, but Joe Long Irom Oxon has ler greeter worries Having completed the three Inals in Mankey Island, he now linds that he doesn't have enough money to buy a boat and hite a

crew of pireles.

The Shune replies You don't need money to get a crew, you simply have to lind the right men You can rescue one from the pason by using lots of mugs to carry grog to the cells where you can use the loul liquid to melt the lock. You can recruit the Sword Mester if you simply ask her Go to the house at the top of the island and use the jubber chicken on the wire. Talk to Meal hook and get him to come also. Buying a boat is a little bil more complicated Tell Stan that you don't



DUNGEON MASTER

I have had a worrying letter from Peter Bower of Oldham who doesn I seem to be aware of the trouble he is cetting himself into. Peter wides solved the Biddle Boom he has made his way to e large open are e where he is being bothered by some slightly bod-looking oranges! Having now at a loss for what to do next Shrine replies An apple a

day keeps the doctor ewey, but if you mess with lunny looking oranges. geons to fix you up. The dodgy fruit

you relet to are Wizard's Eyas and they are very dangerous. You will find to your cost that they are able to open closed doors, so before you enuggle down to sleep behind a shul door, make sure you aren't kissed' awake by one of these beauties. In the room you speak of are two wall buttons, one of the NE comer and one in the SE. Each of the buttons opens the wall near the site of the opposite button. The olicking floor slab you mentioned opens another secret wall compartment, but you can't get to it before it ploses again. The trick is to get some skeletons to stand on the slab for you. Use a magic box to freeze them on the spot while you collect the goodles

On Level 5 of Dungood Master is a gretty puzzie. To get the key, simply switch

are in your passacule and you'll Sed that whoever onto it will

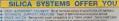
have much money and he'll show you the Sea. Monkey. Go back to the old shopkeeper and esk for a credit note. Lie about having a full-time job, then watch how the shopkeaper opens the sale Ask about the Sword Master egain, and when the shopkeeper leaves, you can open the safe and signi the credit note. Return to Stan's boatyerd and ask for the Sea Monkey Keep relusing his aller until you beat him down to a price you can attord

Now that we've solved that problem I think I should urge you to get back to your meths home work It's no good being a pirate captain if you can't count properly. Who are you doing to trust to split up the gold treasure fairly if you can't count?

With these final words of wisdom the manical glow from the Shnne lades and dies. We trust your visit has not been in vain and the light of knowledge has lit up one of the dark corners of your mind Should your journey bring you this way again I trust we II have the pleasure of your company

ece of scandal which you wish to whisper in the Inn, write rt, 30-32 Farringdon Lane, London EC1R 3AU. If you have a problem, a notice for the Board, or p to Tony Gill at: The Troll's Head Inn, CU A . Priory Cou





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KIXX BUDGET WIN THE LOT McKracken or Indiana Jones, there's in a magnanmous gesture of unsur-

passed generosity, those chantable tolk at KIXX and KIXX XI, have stumped up the readies for one lucky reader to win 50 classic Arrigs games Just imagine your poster puffing and wheezing his way up the garden path, legs bucking under the weight of 50 of the best Amiga games ever published. Sounds too good to be true? Well, read on as we're going to tell you exectly how you can get your mitts on this mountain of Arright gernes

Scattered around this page you'll see a goodly selection of some of the gemes we've got an offer Whether it's the pistform tomfoolery of Rick Dangerous, the shool 'sm up action of SWIV and Z-Out, the

bound to be something here to keep you playing into the wee small hours! To be in with a chence of carrying off this heavyweight prize, all you

have to do is correctly identify the six In name shots we've printed on the entry coupon on this page. Each one is taken from a classic Amiga game which is included in the bundle of gemes we're giving eway

When you think you've got it sussed, write the names of all six games in the space provided on the entry form and post it to The CU AMIGA/KIXX Great Arriga Games Greaway, 30-32 Farringdon Lane, Farringdon, London, EC1R 3AU. Entres to arrive no later than June 20th, 1993



skinds = SWW = Saper Monato G L'Espeti = X-Det = Z-Det = Zek Mc



WINNER 1



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Cut out this coupon and send it to: CU Amiga/KIXx Great Amiga Gemes Givesway, Priory Court, 38-32 Farringdon Lane, Farringdon, London, EC1R 3AU.

HOW TO ENTER

Here are six screenshots that have been taken at random from the 50 games Ital wa're giving away. Once you think you've managed to correctly identify each one, simply jot down your answer in the space provided above each screenshot. You must make sure that you provide an enswer for each one to be in with a chance of wmning the softwara.

Angage

Spreenshal lour

Screenshel live

Acres



Screamskel two Angwer





Streenchet three Scenarshot ala Answer .



Tick box II you'd like to know more ekent Kipp budget thien. []

ft's time once more to get down to some serious talking as we feast our eves on another batch of hi-tech wonders.

- 102 SUPERJAM
- **WOROWORTH 2 AGA** 105
- 106 BARS AND PIPES ONE STOP MUSIC SHOP 108
 - OROER
- 114 CAN 00 2
 - **DIRECTORY OPUS 4**
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- 122 BUYER'S GUIDE -EXTERNAL FLOPPY ORIVES
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- 128 ART GALLERY
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- 134 PD SCENE
- 137 **POUTILITIES**
- SURVEY 141 144 REAGER'S OFFERS



TYPESMITH

Nick Veitch has the final word on the font designer previewed two issues ago.

he ability to use Compagraphic tents in various DTP and graphic packages is an obvious bonns Because they are re scaleable They can be used at the highost possible resolution by any output device be il screen, printer or

prophics life The uselulness of packages such as ProDraw, ADPro and Art Expression is enhanced, along with the obvious specialist DTP packages Even Workberch can nse Compugraphic loris.

This leaves one problem where to get all the fonts from A lot of Postscript fonts are floating eronnel various public domain libraries, but the trouble is that Adobe lants are not directly con patible with the Compagnaphic system used by the Amiga Some programs, such as

Professional Page, come with their own conversion routines, but these are usually only good for one type of lont, and only convort. to the lont type need by that specific program TypeSmith solves a range of problems by

recognising all types of Compueraphic font, as well. as Adobe Type 1 and Type 3 lonts It is possible to freely convert between formals (so you can now nse your Gold Disk lonts through Workbench and suparately

That is only a small bonus though TypeSmith has not been made simply to convert fonts, but elso to create them. Each charecter can be built up. by a combination of Bezier curves - the same drawing look that are found in many structured art* packages. The outlines follow Adobe procedures for path filling, so there should be no problems with characters coming out inverted or completely messed np when they are sent to a Postscript out

This is the only type designing package evail able for the Arrige which usually means the software is a half-hearted effort which the programmers hope to sell before any competition errives on the scene. This is not the case with TypeSmith, it shows ell the testnres and professionalism exhibited in similar peckages on the Mac. If you know Mac software then basically this is Fontographia

SpeSouth vi. 8 - 0 1993 Helen, int. Q 58s 865

Creating your own outline tent is a simple metter of being able to place a few paints on screen. The control should be leveled to account

for the Amiga (nnless of course any copyright lawyers are reading this). The only disadventages are that the drawing

method will be somewhat notember to users of either of the main structured art packages. Some of the lonts that are output in Adobe formats seem to take up rather an excessive emount of disk spacel - even when you are converting Compugraphic tonis which were originally Adobe fonts, back into

There is also a bit of manual manipulation required when making Workbench compatible Innis. The files are made by Typesmith, but no foni directory is constructed for the bitmapped versions This most be done instead through the CLI and you must run Fountain or Intellifont (which one you use depends, of course, on the version of Workbench that you have) to complete the installation before the Ioni will be available for use if would have been nice II the otherwise excellent mannal had

explained this. On the whole this really is a must buy for anyone who is involved in all seriously interested in

desktop publishing or video work. Contact : Silica Systems, 1-4 The Mews Hatherly Rd, Sidcup, Kenl DA14 4DX

Tel: 081 309 1111 Price: £129.99



itch is intinitely configurable and a fine accomple at Workbench friendly programming. An is owing the local in the correct aspect rates, but it is not compulsory

THE C ENCYCLOPEDIA V3

The best things in life are almost free, as John Kennedy discovers when he looks through a reference book with a difference.

hen you are learning to program the Amiga with C, you have two very distinct problems. The first lie learning C listell, and the second is learning to program the Amiga.

Trilings have progressed e long way from the days of C64 and ZXSpectrum coding. The Amiga is e multitesking computer, providing each and every task hishing on it with a virtual 580x0 machine. In other Words, every progrem.

sooning, into ratingle as a minute group computer, providing each air overly base infining on it with a virtual 550x0 machine. In other words, every program thinks it has its very own Amage to run on Clearly this son is o — but if every program follows the stort rules liaid down by the operating system, everything will work together in perfect his mony.

The operating system also goes to extraordinary longits to provide a good, multitasking graphical near interface called Intitilion. There is a cost to using the most advanced operating system evariable, and if you visit a bookshop and flok intrough the official Amica programming.

gnides you'll soon see what it is There's so much to know!

Programming the Amiga can seem such an exestome stack that some would-be coders never get further than their stat to the bookshop. This is a great sharme, as atthough it can tibe defined that Amiga programming is a

line-consuming task, the linshed programs make the effort worthwhite Where also can you get access to some really powerful computer hardware, and make if do what YOU want? When you use Intuition your programs will be robust, it ensportable and best of all they will offer a Termiter interface to five user.

Getting hold of the information needed to program the Arriga should in history require nothing more then that abort wast to the computer section of that mythod bookshop. Their you will be provided with a familiactic array of leading meterfel on the subject, with shelves upon shelves of books leaturing elecouraging titles, finerally covers, pages of information and one big disast-

vanlage – they are all printed on paper.

Gershirly, some books will offer you e disk of typed-in failings if yon send e
areas sum of money, but it is rarely worth the 28-day delivery time. Fair better if
the enter thing came in both Human and Amiga readeble form as stendard,
complete with medy-fu-your oxamples.

And that is exactly what The C Encyclopedia does. It has been written by Anders Bjerln, who over the lest lour years has updated his life s work to version three, and it now fills a whopping 12 lloppy disks with text, programs and examples. He has created an incredible guide to nsing C on the Amiga, and in a very user lineadly wey too.

e very nast inendly wey too.
Having long been acquainted with version 2 of the Encyclopedie 1 had thought that my toni-disk set would have sufficed, for 1 have used it as e reter ence work many times over without complaint. Version three happity proves

me wrong and quedicipling the number of disks now provides more code and examples than a very large stick could be shaken at Now the C code present also includes a complete 3D library, a copperfixt editor, advice on using 8OBs and sprites and a whole host of useful pro-

grams, all ready for you to integrate into your own code. No matter if you want to write a specialized or a spraying milat accole measures are offered or life. The screen whistle of Dilego Celese on the screen is time to music. Needless to say, as all the code follows Commodor's guidelines to the letter, the examples should num on just about every Amiga ever made – or every Amiga that will be made. Any question that you might have that do not seen the control of the code of the cod

Amile programming has now been answered "How do L."? now becomes "On whell disk u, "?"
Although all but two disks from the ext can be freely distributed end can herefore be picked in from most PD liciamet for the price of the disk (in the only), their has always been a registration fee associated with the Encyclopedia. This fee has now from previous versions to reflect the extra

content, and if now costs 500 to become a regulateral user. You 500 along they on membership of Anders's Comprehening club, which not only gails you the massing dates and by armad, but will albe purpose you with some very useful updates and centrose. For a start, you have the aboly to pick care of the bell Armag C programming infacts in this words, so start will be the safety of the start of the bell Armag C programming infacts in this words to see the safety of the safety

even if they are to be commercial products. To get your copy of The C Encyclopedia ask your favourite PD library if they have it in stock. AmbigaNuts is one library that defented you does have it. Feeling flately out can order the controlled work and register at the same time, by sending 645 to the edd ass below. If you wish to register a copy you collared from a library, you showled end 230.

Sending money abroad is eliways a tricky brisiness, and to Sweden especially. If you were to send a cheque, it would actually coal Anders more than as value to cash it. Probably the best wey to get the money to him ie to eend bank notes, after evaluating the Post Office's Insurance schemes.

Address your money to: Amige C Club, Anders Bjerin, Tulevegen 22, 181 41 Lidingo, Sweden 90:

THE ACE

Need more control over your games? Tony Horgan tests a new analogue joystick interface.

we you ever found yoursell in the middle of playing sell in the middle of playing of the playing selfor playing selfby the lack of leadeds control that you have over your actions? ** Joystick response to usually either to sensitive, in which dask you'll be rolling and flapping the plane et ways opportunity, or else the controls will be so singests, i'll led lack yourse flying though a cloud

The answet is to invest in en analogue joyalich. Analogue sticks differ from their digital equivalents, in their instead of simply conveyalents, the direction of movement, they can sense the amount of force and speed with which they're moved, Let's say you were playIng a Formha. I simulation With a digital shek, to avoid shidding around the benck, you of have to steen in bits and pleces, holding and releasing the stack. If you did this in real life, you'd probely roll be car! An analogue stick would let you enter the bend gradually and then cut across the apex,



before, skiding smoothly out again
There aren't many Amigu-compatible enalogue
rovatcks: but the PC market is full of them. This is

where the Phoenix adaptor comes in.

The Phoenix is a little gedget that consists of a postage stamp-sized place of crouli board, with a covalidation of the postage stamp-sized place of crouli board, with a covalidation of the size of

a normal 9-pin D ping and the other is a 15-pin D plug. The small circuit simply repatches the connections from the analogne PC standard, so that they se compalible with the Amgs. Now you can take your.

pick from the analogue joysticks evaluable for the PC.
If you've into flight sims, it will elso allow you to nee those yoke controllers elsowating the realism to even greater heights if you re led up with erratio digital stick controls, gel hold of the Ace and qive you elimnlations e new

Contact: Phoenix Microtechnologies, 18 Hampton Road, Keswick, South Auetralie, 5035. Tel: 010 618 2838752

Thanks to SuperJAM! anyone can create superb tunes in seconds. Mat Broomfield checks out the latest update.

hother you're a professional musician or a first time dabbler, SuperJAM/will have you creating music in moments. We looked at version 1.0 of the program back in February 1992 when it scored a massive 91 per cent. Now version 1.1 is here with a host of new features which are designed to make the composition process easier than ever,

whilst adding even more variety to your music. SuperJAAF is besicilly a composition tool whose primary purpose is to help you to create themed music as quickly and painfessly as possible. You can use it numby for its own sake, as I do, or you can use its output as the basis for further composition in other

The basic package is supplied with 32 musical styles ranging from regions to waitz and hip hop to country. There are numerous additional musical styles available as optional extras-

A QUESTION OF STYLE

Although you can use Syper, (AM) to create you ever mustical atries, far most of us, the whole value of the program is its produkused stylus. Eventually you re going to get sick of listenion to the same old styles time and time again, and when that happens you'll be delighted to leave that there are fires additional style state evaciatie, such of which contains 10 graph

The liest of these is called Darra Mix and ice its name indicates, contains a uslection of styles litted straight from the elightcirel scape. From the cool strains of Chill to the throading flass line of Powerstaray these are the very thing in compasers looking for some alongs-oriented melayation In the Europeaign song contest is more your speed, then World Music is what you're looking for it contains the lettew-

Ing styles: Aggetachia, Arguettas, Carlbhann, Calles, E. Europe, The program can be used on two levels, one of which is ideal for experimenting whilst the other is suited to recording compositions for future perfor-

mance or modification JAMMIN' WITH THE BOYS

In keyboard mode, simply choose the play style you went, click 'Play', and the program will immediately commence, playing a repeating four or eight-bar loop in the chosen rityle. This loop is very much like the type of music produced by the auto-rhythm feature of most modern keyboards. If a played by up to six

Dypey, India, Raly Mexico and S Africa Each of the styles rep reserts the musical style of a different nation or ranial prorp and if you re uplog a GS compatible Mill Instrument, they is even be played using appropriate instruments

The last of the style disks is called Morie Soundtrack and & contains a salection of atries which enforting nitterest clasmake same. From the stepstick of Hilmks to the otherest Intricacy of Oliverworld These styles are by its the nisserest a the batch, maraging to casters their chosen themas with accuracy accuracy. Some of the grosses seeinfed in this cohec tion were distinctly fublicus, representing not an much sublin variations on a finema, as faintly distarrant thomas absention

As you might expect, there are the ridd dull styles errors the disks but overall, I found all these to be very exching to cur. Liced in conjunction with version 1 1 of SeperMAII, the axira prooves included with each style make them even but

band members' Each member of the band plays a different instrument, and the complete ensemble comprises drums, strings, keyboards, homs, bass and guitars. However, apart from the drummer these titles are more representative of the musical role each band member performs, rather than a literal description of the instrument he plays. Therefore there are times when the horn player may play bripany, whilst the keyboard player may be called upon to play xylophone for example. In fact, you can decide what instrument each band member plays at any time in any case

Content See Halls Cheels Represeltes \$915 fre



Sight The Section Window and you can insert a wide range of musical instruc-



you must first select the required plots, before going in its apecity its scale. Once you we done that, the solline built sel play in the new key

All the bottom of the screen, there's a minuture pane keyboard, and by clicking on its keys, the pitch and key of the loop can be ellered Just above the keyboard, four buttons labelled Intro. Break, Fill and End are collectively known as the Style Embellishment buttons. If you click on one of these whilst a loop is playing the selected action will be performed in the current mostcal style Although the onginal SuperJAM supported this feature it was not evailable from the keyboard win dow and could only be applied to tunes recorded in

Beside the Embellishment buttons are four entrely new bottons lebelled A. B. C and D. Blue Robon describe these as 'Groove brittens', but Variation buttons would be more appropriate because each one activates a venetion on the our rent musical style. For example, if you start playing a place whilst button A is depressed, you may find that the chosen style is only played using a plano or dullar. Click button B and a second or third band member may join in, and snotle changes may occur to the rhythm of the loop. Generally speakno, the higher the botton nomber, the more

instruments and the greater the musical activity These buttons represent the greatest anhancement to the program over its predecessor because between them they mean that the number of must cal permutations for any given style are increased

SOUNDING OFF

you can always by to define your ewn!

The program uses either a MIDI instrument or internal samples to produce sound. The interesting thing is that by using special samples known as TurboSamples, the orocram is able to play up to 16. notes et a time despite the fact that the Amiga only

1961 Resinant Sung Styles Chards Ecrosoptes MPTE Prads

has four sound chennels!

The thing about TurboSemoks is the more now erful your Amica, the better their quality. When I first reviewed the program, the TurboSamples were rather poor in quality but as I was only using a boltom of the-line Amiga, I expected that I m now running the program on an Amiga with 10Mb of 32 bit RAM, a farrly fast 68030 processor and a 68882 maths co-processor, end yet the TurboSamples are still nothing to write home about. They sound very trony and electronic, a bil like the cheaper hand-held games. The lact that their stores position can be altered helps to improve their clarity, but for a less high powered user. I wonder whether they I be worth using at all?

FOR POSTERITY

When you re ready to create somathing a bit more permanent you I need to go to the Section Editor Here the piece of music you're working on is represented by a stop of blocks which extend honzontally across the screen. The stop is divided into six parts vertically, each of which represents different band members, enabling you to turn them on and off at will throughout a performance. At the start of each of these horizontal blocks you can add a musical

instruction such as a key or groove change The functions of all of the Keyboard Window but tons can be duplicated at any point in the section editor, so you can choose between four variations of tha main style, as well as inserting intros break, fills and endings. Once you've created a section it is in turn represented in the Sono window as a block

and it is by arranging these blocks according to your preference that a song is constructed When you're harroy with your soon, it can be saved in SuperciAMI, SMUS or MIDI format. SMUS

JARGON BUSTERS

· KEY - A Key putition which unless well assent partitions grania a aparelle "leal when ployed logather in a pines of wrong (or biscoods st) if played with restalo giftes notes.

a LOOF - A reposting place of muste educh may last any where between a low accords until ball a misute

o MIDI - Musical instrument Distal Interface - An plan fronte steadard for cornecting computers and lestraments so that they can communicate with each other PANNING - Panning is a term word in roins to the sterne position at a sound. A saund may oppose to be projected from any position in a 180 arc. Many MIDI astruments allow you in spendy exactly where in that are on lestrement

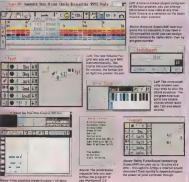
ellows you is remede the physical foreign of members of @ OCTAVE - The smallest pold of pitch on a plane knyboard - lise insteam between one key (block or white) and then ore besite it - is calleb a somi-inco, Twelve sequential serol tenes or a natiod on octave

format saves can be loaded into programs, such as Sanor, while MIDI fine our be loaded into Bare & Pipes, Dr Ts, Sequencer One and a host of others

CONCLUSION SuperJAMI version 1.0 was snperb, version 1.1 is:

simply awasome. The real beauty of it is that its main faatures are really easy to asa so theil non professionals can dabble happily for hour noon hour making wonderful music at the click of a button. Yet at the same time, hidden beneath its colourful extenor there are dozens all powerful customising options so that more demanding users can create completely original tunes with equally ktile effort. @

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packs on even meatier panch with a set of gigantic GUNS N ROSES and METALLICA tour posters! Talk about value for mayhem, squire!

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Wordworth v2 AGA

One of the best page processors is now available in dazzling 256 colours. John Kennedy takes a look.

dworth 4 1891-92 Digil a Intersectional e de fait e fait e fait a fait a fait e fait a f Life...

> "Die is a funny thing" mused Gmen, skiling down at his computer keyboard. "I remember when Life was elmale " Ha alghed whist fully, "Naw", he

continued, "I have to contend with this " He looked down at his House's, still badly aporched.

A cat, altting about els: feat away, perched on the top al a simphali auddenly sneezed, almost as though it was aniggeting. It still hedn't totally forgiven.

Green for being violently sick on top of it the last time he had been ill Spresimes Green wondered if it was the cat which had somehow managed to

aet fire to his undergamenta

pr 1 - 1 1 1 1 A 1 1 1 1 ... Creating fall-colour flaby eferies with WordWorth is now ever seeler, with ug to 265 different colours on-acreen at ence

nch has been written in these pages about WardWarth, which is widely considered to be one of the best page processor pack ages currently aveilable for the Amiga. For the nrienlightenad, a page processor less in theil grey erea somewhere between a word processor and e dasktop publisher, stealing ideas from both in order to make producing reports, itiers, adverts end in faci envitting which involves graphics and

Of course with the release of the new Amigas and the new AGA chip set, software compenies have a perfect excuse to produce a whole new range of updates, because the Amiga has had its

colour capabilities improved markedly

MODERN ADVANTAGE

The so-celled 'senous programs available for the Arrige all use high-resolution screens, which offer e honzontal resolution of 640 pixels - any less and the screen becomes too 'chnnky' to show sufficient detali

JARGON BUSTERS

dissiler, organized as one bil per pixel. Multiple bilglanes a GIF - A standard Imaga file format, acquisited by

colonis that it allows your only 16 in pre-AGA days Now The Next Generation machines can offer up to 258 colonrs in this hi-ree mode, which means programs such as Word/Worth can start to

COLOUR PROBLEMS

The problem used to be that when loading graph ics into your page the colours that were used to displayed them could prly ever be approxime tons. With more than one maps, there just weren't enough palette antnes to go around, and the rasults that you got on-screen could be

The drawbeck to e hi-res screen is the lack of

WordWorth AGA allows no to 256 colours on screen all once, which means that not only will a 256-coloni image eppear with total accuracy, but several 32 coloni screens can also appear each with their own palettes mixel Of course, having all this memory set eards for

graphics does have its drawbacks. For starters, when an 8-billplane screen is used there is a naticeable decrease in speed when menns appear and lext is shifted about in lect, I was very sur prised that things hardly slowed down at all. Perhaps with larger projects things would get slower but I didn I nel to create really big documents because of the second diawback memory The channel AGA machine - and a bernalo at

that - is the A1200, which comes with 2Mb of RAM as standard. This might seem e euroentuar. amount, but running WordWorth will soon dispel that myth Using a 256 colour display, you will find the number of images you can load will be limited - it won't be long before the Not Enough Memory requestor begins to pop up. This lan't a problem with WardWarth, rether a consequence of using better grephics.

GET HIP

WordWorth ensures that all Ameges can make use of e Workbanch 2 environment, by creating its own. This is one of the points with which I'm not totally happy - I would have preferred a compietely intuition friendly approach if at all possible.

If this had been done, the special Workbench 2 file filters (as used by Multiwew) might have been incorporated, which would have meanl that GIF and TIFF images could also have been supported

Probably the only other nightle I have is that images lose detail whenever they are scaled down and then scaled up again. If you don't place you pictures right linst time, you'll need to re load them

CONCLUSION

Amies you own @

The supplied Agfa scalable fonts and the postscript ontput mean that you'll need to be into some senously heavy home printing before you outerow WardWarth

Bear in mind that you don't need to own an AGA machine to use this program - but if you don't you won I see the extra colours. However you'll still benefit from the ability to load ail the new IFF formats (and PCX) and also enjoy the slightly Improved printing speed. This makes. WordWorth v2 AGA an Ideal notrade no matter what type of

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More colours means using pictures is easier than ever before - memory permitting

OVERALL





ven it yen't withdrawe get completely out of order, yes can will just you be to the tend, and severy all life althous coded in our care. Cache on between the herical sources care occurrences ordered in a mean of smaller without it is not severe or the coded of the code of the code



Incie from a few windpass, but if there's noon, it's treat to use the stadiosted traport window, which names complets w into an the measure and literal



Bars and Pipes Professional 2.0

The race to get ahead in the world of professional Amiga sequencers never seems to come to an end. Tony Horgan investigates the latest tipsters' favourite.

If you're looking for a podessional Amiga sequence; these are two choices: Dr. Tis 'KCS and Blas Relibons Bares and Pipes 'KCS' reached version 3.57 last year and included interpressive range of leatures such as automated moving social penting and practice and number outering with a devial infertace holding at all together. Now with its new 2.0 upgrade, Bares and Pipes's moving allhade.

Despite the claim on the box that Bars and Pipes needs 1Mb to run, it actnelly needs more than that Wah to be of LL indexy. I managed to make up a copy that would just about load only a 1Mb machinit, but even than there is not enough memory to open any windows, so it is still invusabla Forget if unless yon we got at least 2Mb.
Balara you can get it to run, you're lorout to
ending an extremely long-winded unarchiving assisson. There are lines dissis in the package, and
after decompressing them you're left with long
What is the point of this? Why on earth conditithe software have cortain reindy to have an ion
integrity We don't need the hazaking.

POWER HUNGRY

Bars and Piper is designed for the muscone with a color kit, it would work just as well with a model in MIDI selep, but lauge afforts have been made to support just about with yell of sound hardware you can immegne, including direct compatibility with The Chen Step Merce Pincy Ceremit MIDI modules, Blan Ribbon is three-way MIDI Inferface, the Pollard Sound Ceremis, and the Summa AUTOT2 ence AUTOT6 hard disk recording/sampling boards (collawing you to speriments and real samples.)

from the hard disk with your MIDI sequences)
The package also callets for audio-visual production, with snpport for Scala and the Video
Toaster, and can even control an external

Sympho SMPTE generalor. The now viscon has been written for noe with Worksperch vestions 2 and above, although 4 still works fire on 1 a System. The man advantage you gat on a vestion 2 a Workshanch is the begins secret flare and Pipes as all based anound who secret flare and Pipes as all based amount with down—such section of the pipes and provided the second of the pipes and provided the provided provided the provided provi

RECORDING

Despite the massive range of features, once you've got to know your way around the basic

THE GRAPHIC EDITOR

After you we restated a lirack, you can go lette the graphs; edited this if up. Here and Piese can draphs; the uncele in a number of ways. The sequences standard plane and system shows notes as homeostal bars on a strapilized stave.





match is will.
Stap-lime adduct aspecially useful for programming from pathers, is also carried out from hore. If you we get aspect manney to keep the cateout flapley, if a life assists a make out than the Team softer or KCS.









Algai. A manocione la essettial when you re recercing flare and Pipes gives you the option to assign the metronome to any MIDI channel, an Amiga sample, or a





MIX MAESTRO

Automated misting is another over where computers are taking over tre machanital marbines. The Mrs Massire was I do sway with the need for

Every track can have its own channel on the reixer, and you can modelship, per or whelever. The idea is lied you sell be sequence pleying and move the fadors with the moons. All the movements and

agorded and II you made a hash of a parra-ranged the engine yon kayboard With Mix Stor



TOOLS

lette of Bars and Place is Inels are shows as little incos, and are placed at ands of the tracks. Fools can do a nombas of dilferent things. I'kin



ein), and they man gian allest the note data on the track Arpangualors, harmony and etho gararators can be used to had up your original performances. Other operations used

contrals recording is quite a simple affair. There's a handy loop record function, which makes laying down bass lines and rhythms a lot easier. By set ang up a loop on the regnied track, you can record a nomber of continuous takes. The computer ramembers Them all, so you can dacida which you profer and then copy if into the proceed-

Quantisation levels are usar definable. If you pni the quantise tool at the front of the track, your performance will be corrected and then written to the track. If you put II at the end of the track, the actnel note data on the track remains un-quan used, but the notes are corrected on the way out. The results sound the same but the second method leaves you with a recording of your ongl nal performance, which you can then try quentising in different ways The number of tracks that are available to you

is only limited by your interfaces. It's quite possible

to simultaneously sequence The One Stop Music Shop end a Sunrize samplar (bypassing MtDI altogether), and np to 80 MIDI channels with Blue Ribbon's Triple Play Plus MIDI interface. Of course, it's also compatible with a standard 16 chan nel MIDI interface

SAMPLE SUPPORT

Most producers of big sequencers seem to think that 8-bit samples cound awful and aren't worth bothering with. Amige samples have been need with great encouse in commercial records, so that's that theory down the drain.

Even so, Blue Ribbon have followed the others lead, ignoring the massive potential of Amiga sampies. A token sample replay tool is included, but its hopeless. It demands IFF samples, but won't recognise loops and can't even play them at differ ent pitches, so there's no chance of playing any Junes with them. While they continue to look down their noses at 8-bit samples, Blue Ribbon plan to add support for the forthcoming 16-bit DSP, when it eventually arrives

CONCLUSION

There's on doubt about it. Bars and Pipes Professional is a very powerful piece of software. but to get the most out of it, you're also going to need a lot of nowerfal hardware. If you're working with a basic MIDI setup, made no of maybe one. two or three sound sources, yon'll never use even half of the features on offer. It is in its element when it's at the heart of a big MiDI system. So long as you've got a beefy Amiga to run it on, with about 3-4Mb and an accelerator, Bars and Pipes can handle inst abont anything theil you throw at it Add a three-way MIDI Interface, and yon've got 48 MIDI channels to play with. Definitely not for the beginner, but if it a power and features you want, this in the baby @

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don't know about you, but I've had enough of all these useless 16 bit sampling boards. They ell. look the business if you glance at the specifications, but ity using them to make music and you if soon realise how hopelessly inadequate they are.

Well, now Blue Ribbon have released a sonno board that really works! Yes you can use it es e General MIDI sound module. Yes, you can use it to make male-voice soundtracks. Best of all you can use it with any MIDI sequences, from MED to KCS Or Bars and Pipes. The catch? At the moment it's only available on a Zoiro board, which means it's not compalible with the 500, 500+, 500 gt 1200

WHAT'S IT ALL ABOUT?

Dan't let the name deceive you. The One Stop Music Shop is really e Proteue I synth module, put onto a board that alots into your Amina it has its own MIDI in and out it connections and, in most situations, it acts just like a normal synth mod nle, except that it's neatly tucked

away inside your Amige The Proteins I is a full lealnied professional swith, but as the One Stop is on a board, there's no keyboard. To get the most from it, you should really use it in committee with a separate

MIDI keyboard that can send velocity aftertouch ottchbend and modelation data. Even so, it's onteleasible to use it lust with MED or OctaMED, playing the sounds from the Amiga keyboard. I know what you're thinking how can you possibly get any worthwhile results from MED? Some will lanch at the idee - but let them laugh. The fact is you don't need a top-notch MtDI keyboard if yon're writing partain types of mnsic, end if you're au feit with the workings of MED, then why waste valuable time and money on extra kil, when you could be bang ing out the next worldwide floor-filler?

Even so, envote who likes to moord live, rather than program, will be far better off controlling the module with a professional sequencing package and a MIDI keyboard

You may be wondering, Il it's plugged into a Zorro slot Inside the Amiga, how does it get to talk to your segnencer? The answer lies with its built-in MIDI connections. With a standard MIDI Interface connected to your sensi port, you can plug the One Stop's MIDI out to the interface's MIDI in and vice verse. If you use it with Bars and Pipes Professional 2.0, you can ditch the MIDI leads altogether and address it vie the Zorro slot

PANEL BEATING

With the board out of reach in the Amios s case. there's no control panel for you to select and edit the sounds with Instead, it comes with patch editing software, which is a lot easier to use than a

JARGON BUSTERS

● MCOULE - a sound source without a keyboard O ZDARO SLOT - the big Arrenes (1500, 2000, 3000 A 4000) was these for various expensions . LFD - Low Frequency (Isolifetors are omeloved by avalibusisers to make complex sounds from comple waves baseiseb instincts ISIN at in necessary A- 10th JARSHED . for greater compatibility believes different assignant



cluster of pokey buttons. It molitiasks, so you can run it in the background along with your sequences Sounds are constructed with either one or two of . the source wave samples. From the patch editor, you can pick your wave samples, set their relative volumes, set the amplitude envelope, add some phasing or chorus, and pick your LFO

If you're like me, you'll whittle the sounds in each tion down to one or two instruments that you like, so before long, your renge of 128 presets will have been reduced to about 20. Then you'll be back to lusting effer new sounds again. If you hope to be able to create sounds from squatch, and contact the unboard presets, you'll be left wanting

You may wall feel diliterently though in which case there's no problem. The presets, and the waves they're built from, are very class 16-bit sem ples, and the General MIDI spec ensures that There's e full range of sounds, making it a feasible all in one mosic machine

However, the General MIDI compatibility does have a diewback - the standard says that certain sounds must be included, and the result is that so much ROM is used no with these sounds, their there's not much room left for envirting a bit special ne toetsviriual

CONCLUSION

The One Stop Music Shop is a £350 16-bit synth module, a good 2150 cheaper than it is in its studioonentaled rackmount version. It is the first board their actually works as a connd source in a normal sequencing environment. Not only does it work, but it works extremely wall.



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conservent to beat.	
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FLEXIBILITY	***********
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INNOVATIOR	40000000000712

An impressive low-cost General MIDI sound source - not to

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Software should help you get your life in order, as John Kennedy found out.

nili mnitimedia really takes off, it's e sad fact that the Amica needs 'serious' programs in order for it to survive in a PC-dominated wond. The ability to enimate graphics in real time accompanied by a lonr-channel soundtrack may be very impressive, but what do you do when you need to catalogue your record collection or look

after your cinb's records? The Arriga is well served when it comes to get ling words onto paper, but spreadsheets and databases are pretty thin on the ground. So a new one deserves more than a mention, especially

when it costs less than £29. Order is a fully-findced relational database program from South Hams Software. As it is written in-house, users comments and auggestions can

be swiftly incorporated. Now into version 2 05, Chair is capable of stor-Ing and reineving enough information to run a small company. If your experiences with databases have been limited to vanous priblic domain ver signs of telephone directories, you are about to enter a whole new world

FIELD OPERATOR A database consists of many records, each of

which can contren several fields of information. For example on a computer system somewhere there With your distainess safely on clak, getting the facts you currenteers she add cards.

is probably a hinge database, with a record set aside for me. One field in this record would content my name, another my social security number and enother my preferences towards certain brands of

cat lood. Fact field contains a specific type of informa tion, be it lext or numbers. Order recognises live types - text (for names and so on), numbors, dates, times and formulas. The latter is one of the newer additions and offers plenty of scope for

some interesting pseudo spreadsheel applications When using Order, you must decide on the number of fields and their type right at the start of a project, so good plenning is essential. Of course, if yon do make an error of judgement all is not lost and mistekes can be corrected

FILL IN THE FORM

Entering information is logically the next step in creating your database, but before this can be achieved you must design a form. Rather like an application form, this contains various boxes Inlo . . which the Information is input. You select how the information is requested by dragging the fields about on the form design screen. The screen can consist of nothing more than a simple name and address regnest, or can be expanded to become a whopping 30 page document.

The form is then 'run', end the required information is input - unless you alreedy have the necessary information saved on a disk some where, in which case Order can import the facts

directly into the detabase Once the information has been entered (verification is automotic to calch typing blanders) and saved the dallabase is ready for use

ON REPORT A report is the opposite of a form - it's

used to get information out of the detabase. For a form to be of any real nse, you need to be able to specify vari one conditions - for example, e. commercial database may be required to reveal only those people who are below a certain age limit, with a good credit rating and with no strange preferences for cat lood Order includes many conditions

(equal to, greater than, between and so on) which may be applied to any or all fields to narrow the detabase search The finished report can be displayed on-screen, printed or spooled to a text file for lurther processing - perhaps being incorporated into a word process ing document.



The defaults mean controls not only the little things (ike colours), but rether conhainsly the name of the current project

FATAL FLAW

THE RESIDENCE OF STREET

For possibly the first time ever, Order presented me with documentation which was too detailed. Split into two parts, a tutorial and a reference, every leature of Order is exemined in excruciating detail it's impossible to read more than ellew pages in one oo as the microscopic detail quickly lires both eyes and mind sminitaneously

It's the manual that nocovers Order's major few It's too difficult. No metter how detailed the mannal. If the software is hostile the user will find the task of getting to understand the program a rest

Order was based on a PC program and if shows. Even the requestors manage to make the Amiga look like a PC II I had to summanse what was mission from it in one word, it would be 'ininition' - both in the sense of user-friendliness

and as the Amiga's graphical user interface Order certainly offers the kind of relational style detablish which the Amios has been short of ill you want a retable system for storing text-only Informe bon then it's certainly worth a life



EASE OF USE	***********
Not helped by the installing	
VALUE FOR MONEY	. ***********
EFFECTIVENESS	***********
FLEXIBILITY	**************
No Affact and slimple littles	
INNOVATION	**********53%

A powerful program, let down by poor user interface and an unfriendly manual.

OVERALL







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If you've always wanted to create your own programs on the Amiga with the minimum of fuss. Jeff Walker's here to tell you how it's done.

anDo is not a programming language, it is a software authoring system. There is a differ ence With a programming lungnage – like BASIC or AMOS or C or whalever - the person who is writing the program has to 'invent' line efter line of programming code, often many hundreds of lines to achieve a very simple job

Just about every person who buys a computer has a secret dream of themselves, or the siding for whom the computer was bonghi, becoming a programmer. The projected image is that once you know how to program you can make a computer do anything. And, once you can do that, people will gay you lots of money to make their computer do what they went it to do

You can And Ihey will But what they don't tell you in the shop when you buy a computer is that learning to program it. in any lenguage, moans a lot of hard work. And that's why 'softwere authoring systems were invented

** 0 5 use only the topical or topical fonts. Ocrigto.. which is an awkill reshription it you are deeligning on application to run TEN IN ONL OR

THE WRITE STUFF

The idea behind software authoring systems is that the author of the software (that's you) donen't have to know very much et all to start with about functions, commands, expressions, snb-routines syntax and a whole dictionary of other jargon words, in order to write a program, instead of typ Ing in lines of code you use buttons and gadgets and requesters to tell the authoring system what it is you went the software to do, and the authoring system writes the necessary code for you

In a way you are sort of writing the software

beckwards. You design the interface - the win dows, buttons, fields, menus end so on - end Then one by one you decide what action will be performed by your softwate when the person using your software clicks on one of those buttons ai types a value into one

> one of those menn items All this designing is done with the mouse. For instance, after Instructing CanDo that you went to create a button you ere first requested to dran out the approximate size and position of your button Then a requester

of these fields or selects

appears theil enables you to enter the details of everything to do with that button -- the type of but Ion, its position end dimensions, its normal appearance, its appearence when selected, and

what action should be performed This is where CanDo gets more like actual programming because the action that will be performed is described in a script', which is one or more lines of BASIC like code. However the script. editor has many features that enable scripts to be written by selecting more options from more regnesters. For Instance II your softwere is snp posed to show a picture when the button is clicked. then in the script editor you can click on the Show Picture button, which brings up a tile requester to enable you to select the picture. After selecting

and pressing OK, the necessary code to load and display that picture is inserted into your script. Clicking OK buttons a lew more times to get back to the mein CenDo display what you have

JARGON BUSTER

a HASS Hold And Modilly made - a country watz witch allows 40% estours on the screan is low ras mode (or in any made on ACA morbines · ASL Library: A liberary of code empilled with newer year

sions of Workbanch, a hick includes much more advanced · Affect: A matry scripting language, angolied with Workharch 2.0 and up, which anables interaracess non-

(1) Billy & PATRICK WHITE



The system variables used by this document have the fallowing select Brack Rays: "DocOb (art 81" Recurred Name: "Examplable" Defberacher: Theliand: "creats" TheL tre TheLipeNumber: TheCalumbianher: Length Off. ung: Linesinfocurent: SteeDt Borumanl: 636 CharsTeBesttLins. ChaesToEndtfline:

"to creata a PowerList" ate o PowerList .0()18494EH-4+\107/*

CanDe's 'document' system makes it easy to read and manipulate date.



after literally 60 seconds of 'programming' is e standard Amigo window with a standard Amigo button in it, and when you click that button a pic-

ture is loaded and displayed CanDo applications are designed from the user-interface backwords - first you get your buttons and menns and whatever in place, then you decide what each 'object' (as they are known in

CanDol is going to do when activoled by the user This breaks down the task of writing a prace of software that does many things into manageable chunks that not only can you hold in your head, but you can actually see on the screen - you can concentrate on getting one object working properly before passing on to the next. It also enables you to easily add a feature to any application you have developed as and when that feature is needed

YOU CANDO IT

When you coen the CanDo package and discover the 400-page manual you'll immediately rentise that it can't be 'es simple as that', otherwise all that documentation wouldn't be needed. One unick flick through the monnal is arrough to scare the pants off the 'non-lechie', which is why it starts with a couple of step-by-step futorials. But after complet ing these which will take you about a couple of hours, you'll realise how grickly and easily explications can be created in Carto that would take maybe days, wasks or months in a traditional programming langnings

The second lutonol, for example, is a simple database that has buttons to add and delete entiles, plns search, sort, load and save functions After about an hour you have created a fully tuna tional and pasful place of software that looks good and even has special features like kayboard shortcuts for manu items

GanDo is oble to load and play IFF ILBM brushanims and IFF-8SVX sounds, and noises can be unite easily coordinated with motion - so if you had an arism of a grandlather clock you could, los axample add tick and tock noises at each end of the swing, and even e 'swoosh' in the middle if you

SUPPORT

Many of the Workbench 2-style features are supported and can be incorporated into your applications even if you are still using 1.3. Alas, some of the most useful Workbench 2 features are not present. Recognition of delauli system lonts for example. Although CanDo anables you to load and use ony font for use in rendening buttons and menus, helds (the gadouts you type things into) can use only topaz8 or topaz9, depending on whether you salected an 60-column or 60-column

display in Preferences Amiga. owners who have never seen Workbench before version 2 04 won't know what on part column display feature was one of the Workbench 1 3 Preferences options that was thrown out with the both water.

Baing restricted to name topez8 in fields may be important il yoni application is dealgned to run in Interface mode because that font is hor nbly small in that screen mode

SCREEN SCENE Tallong of screen modes these aren't supported prop-

erly either in lact, the whole question of screen modes is only indirectly supported in as much as you specify the window dimansions and number of colours, and GenDo sulomotically quality a screen in the necessary mode, or it opens on the Workbench if you want. Window sizes can be anything up to 10,240 by 10,240 pixels, although this is the theo

retical maximum of course - in practice you'll be restricted by how much graphics or Chip memory yon have available The naw Workbench 3 features are not yet sup ported. The maximum number of colours you may

specify for a window is 4096 (HAM). There are no 256 or 128 colour options, and although there is o 64 colons option lines in actually Extra HeliBrite mode (32 real colonrs plus another 32 of half brightness) not 64 real colours Scienting a window width of greater than 320

pixels means you will be opening a High Res stretn and will be confined to a maximum of 16 colours, even on an Amiga 1200 or 4000, which don I have this restriction

CanDo has a built-in file requester that you may use in your applications, but access to the standard Amiga file requester vio the ASL library is not supported

CanDo can listen end talk to any ARexx port anabling advanced users to write a program that can control any ARaxx composible application, or to have any ARexx compatible application control the CanDo application you have created. As the manual ppints out, you don't have to use thesa features, they are there if you need them and know how to use them

With a hard drive end e conole of mags. this is the most fun you can have without Lemmings on the screen



One of the asympte explications supplied which CanDo is a rudimentary aprecia



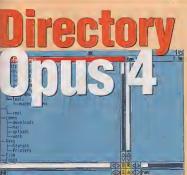
This package comes highly recommended if you want to learn about programming applications for the Amiga

OVERALL



Bring out the beast in your car. **Max Power,** a great new mag for car enthusiasts, shows you how. It's packed with all you need to know about modifying your car.
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And unleash the beast in your car.





CHIP:833K FAST71956K TOTAL:2789K

Has John Kennedy found a way to do away with his Workbench? Sssh – don't tell Sid.

eng ago when Wordbench 1 3 was considered the helpf of user-inentienss, along cause as sharewas program called SRI to invelobence et lifves. For many users SRI a either to instantly view files using then name, copy and mever them between directores and then touch other programs with a single click made up for most of Wordbench's partocomings.

However, sherily after the subte blues and greys et Workbench 2 started appearing, I found that I had stopped using S/O, simply because the new and improved Arriga environment was se

d

I was scephcal of finding another utility that would be as useful to Werkbench 2 users, as SID was to Workbench 1.3 - and I remained so until Directory Opus came along.

The authers may deny it, but Opus is SID.

teborn. What has changed is the huge number of options the utilities provided the ARexx support and the improved general feet — not to member the excellent manual which a shareware program couldn't begin to compete with

Everything about Opus is simple and fast Buttons are crisp and use 30 shading, directories are quickly scanned and chiched and the leaf is children in the critical cristalia and solid STREST MOVEMENT

> One of the mest basic ways of using Opus is as a file organizer. Once you start using your Armiga fee anything either than games, you if soon collect a large mumber of feel if you are well organized you'll have made drawers le put those fles in if you're meet like me you will have files stored on every well.

able Roppy disk and several hard drive partitions full of data you can't even remember creating. Although the new Werkbench environment allows lites to be dragged from distancely to directory, it's not particularly feat. This method is also prone to the

dreaded file drop — when you accidentally let ge of the mouse too seen and your file vanishes into an unseen drawer. Opus simplifies the copying process, as it dis-

Cours aimplifies the copying process, as it was plays the source detectory on one aids of the screen, and the destination directory on the other To copy them, you highlight them with her mouse or enter a wid card definition such as "BAK and than clack on the COPY button a till be bottom of the acreen. Files can be tested singly or in large numbers, and other buttons are available to provide options for renaming minering and defieling tiles.

SECOND MOVEMENT The second way of using Opus is fer running pro-

grams such as lext and picture viewers. When e theman is double-calced it will look ell a file and work out what sort of information it contains. It then applies a perice of currenge — for exemple, all her lie is a cont his, Opps will sue as text viewer to let you read as contents. It if a picture. AGA mades or otherwise, Opps will display it.

THIRD MOVEMENT

Opus alse works as a quick and easy general utility pregram. Without leaving the main acreen yeu can formal disks, etchive and un-erchive ties, check how much memery and processor capability you're using and even give files secret passwords.

But probably the best leature is its remarkable level of configuration You can change (Just lead to level of configuration You can change (Just lead to level of configuration for the colour el the buttons to what limiting the level is triggered whiten you click on a 24-bit image. Every button, every menu and overy single possible colour combinetion can be affered until you have Cloue exactly the way you want it.

FINALE

Opus is user inendiness taken to the extreme Peredoxically it also offers real power to the user, so both novice and expert can be sure of using it daily if you only buy one piece of non-gemes soft ware in your life, you could do far worse.

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With Opus 4, you need never use Workbench again

OVERALL

88%



about Opus that you could possibly need to.

117

Roctec have just launched a new piece of video gadgetry that'll turn your Amiga into a mini editing suite. Stephen McGill focuses on the action.

octoc are responsible for saveral highly linnovative, low-cost Arriga peripherals. The best example yet of this innovation is the RocKey chrome keying device which earned a CU Amiga Top Rated award of 91% when we revewed it in October Can they repeat their success with PIP View? Housed in it said, well shielded black metal box PIP View is a self-contained 100-channel remote con-

trol television tuner, video/audio switcher and preture-in-picture device. Although Roctec have targeted it at the Arriga market, it is generic so you don't necessarily need an Arriga to use it, although you will need a composite monitor like the 1084

The TV tunes by itself isn't very special. Philips make and market they own model, as have Amstradi in the past and Microline wild added a teletext facility to boot. No, what really stands out about this particular device is the picture-in-picture facility The real panel houses an array of phono sockets

denl video sources. There is only one output, which is intended to lead a monitor or video recorder. The mout sources could be any device capable of outputting a composite video signal, such as a video recorder computer, carricorder, laserdisc, etc. On the right-hand side of the front panel a set of lights indicate what is going in and out from PIP View Main', indicated by a red LED, lets you know which

source is going to be displayed as the main picture on your monitor 'Sub', represented by a green LED, is the sub-picture or picture-in-picture display. The sub-picture is just like a miniature television supenimposed over the main display. The sound of the sub-picture can be monitored through a 3.5mm headphone lack on the rest of the unit. Volume control on the sub-proture is limited to three settings - Lo.

LOSING CONTROL

Med and High

Swapping the sub and main pictures is as easy as pressing the swap button on the supplied remote control. However, the first gripe about the unit starts here Other than the remote there is no alternative method of controlling the unit. Some manual buttons on the front panel at least would have been appropriated Unlike the old picture-in picture video recorders

versatility is the name of the game with PiP View. You The Rocteo PIP sixulos shows the quality cratmership that



can select the TV tunes or any of the three video mouts as the main deplay or sub-display, giving 16 possible combinations of picture-in-picture output. It's worth menborung that each of the video inputs also have corresponding linear stemo audio inputs, the sound being switched with the picture. If you re into Desktop Video, PrP View a ability to effortessly switch between video sources could be of Immortes value

Advanced video editors use a method known as A/B roll edding. This basically means that you have two video sources or in PIP View's case three, cued up at pre-selected scenes. Rather than continually stopping and starting recorders and source machines," adits are performed two to three scenes at a time by switching between the sources

Video purists may point out that to achieve glitchfree switches in the above manner require all video sources to be house synced and time base corrected Nevertheless, it you have a video source from

similar machines with similar signal strengths, picture roll and consequent stablisation of image and sync can occur so quickly with PIP View that the glitch is barely noticeable (it is present though and will meritably get worse with every generation of video tape copy thereafter).

Professionalism and conjecture aside, other relevarit criticism of PIP View is the positioning of the sub-picture. It can be placed in any of the four comers

been unrealised

of the monitor screen, which is far too limiting. Arrivon anotheries control of the device could give the user the power to place the sub picture anywhere on screen. The optented is definitely there to: Poctec to create a powerful Dasktop Video monectory, but it has

CONCLUSION

Rocted have suffered from myopia with PrP View Rather than supply the Amega market with an awasome audio/visual switchar more, they have given us a plaything of limited convenience and novelty value.

at it arely searles by remote control.

JARGON BUSTERS

Composits - A video signal where coloni ace any information is coded into a single signal · Gillich - A momentary break is a video eigent which can cause co-screen seterference and picture break-op · Sync - Shart for synchropisation Part of the video sig sal which indicates where the frame starts

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EFFECTIVENESS	***********
FLEXIBILITY	**********
INNEVATION	404004094075

A good idea poorly executed, leaving it with nothing more than a novelty value.

OVERALL

70%







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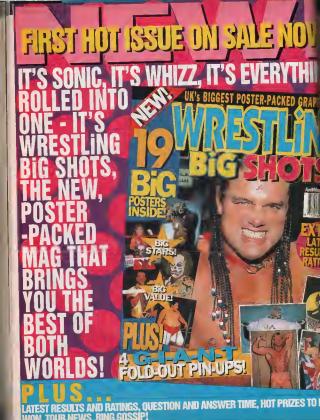


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Power

Tony Horgan investigates one new powerful attachment for the A1200.



Point Units, or co-processors, and assist the main processor in matter operations. Spreading the work between two chips means the job gets done quicker, and so the program must state. It you decide to go for the A1204 without an EPU, you can always add one late if you feel the need.

CONCLUSION

The difference in potential between a machine with 2Mb and 6Mb is prefly large. All kinds of new evenues start to appear before you, and then there is the bonus of hidded speed. Throw in an FPU and you is in Arrapa healtwin. A good buy.

ALTERNATIVE BUYS

MICROBOTICS MBN 1200 (£139-£619)
The MXX 1200 cenes it a whist zergs of contingenders, although on FPU is competuary on all models it lyse [and word is RAM expection, the MBX can work sud a bit price) in fact, an A204 with # Mit in First RAM ned of 25 MBIS FPU, will not you back £278 95, while the explication MBX contains it is 64 MBIS.

GVP A1230 (£399-£599)

The At20 wino axide speed and RAM, but local II in a display difficus way. All models come with a 50000 prosersor, which acceleration the mechanisty yalond love times. The basic model has TAM of Fast PAM of seed to 25 250 The SEAS, yang of a PTU. 48th of AM and the 300 processor. The 'GUO colors for A1220 line best option II appeal by your custom open."

I you've just upgraded to an A 1200, you've probably still reeling from the shock. The speed, the power, the compact design, the operating system, the shirty tibe Commodore logo - it can all be over whentimg all first However, most A100 owners soon regian that matabile apporter for even more speed and power. If you can feel you schem-linist creeping up on you'd agen, you'd before take a look all the upgrades on the market.

A few months ago there was nothing but rumour and speculation, but since then the options have been opened right up. Now there are at least three major upgrades available, the tatest of which is Power Computing's A1294

The A1204 comes in e number of vitriations, but each model is based around a 4Mb Fast RAM expansion and a battery-backed clock, in the form of

JARGON BUSTERS • FFU - Prump point Unit Appr at CD- processic anily

equileration programs by retricting the main processor's vertical of EMP PAM — Essential for graphics and accpd, but programs gamerally to a slower in Calip RAM PAST RAM — The nortical relays cannot access Fast PAM develop, but software ractions proles of. ARA — The new coll of graphics at high tife allow 256

colocs displays, glus the HAM-2 mode

a board that fits links the A1200's trapdoor slut. The bases mode (C165 89) kes, Jack the RAM fitted. Next up the ludder is the same board, but with en addinonal 20MHz 8881 FPU (2289 90). Then three are three models fitted with 66882 FPUs instead. The 28MHz option reteils at 2729 85, the 53MHz board at 2289 95, and the top of the range 40MHz model selfs to 2599 95.

SOUNDS GOOD

In a romal environment, somo can only be played clinically from Chip (PAM, and apprice ladiplay are smillsely himsde to Chip memory. Commadore serialsmillsely himsde to Chip memory. Commadore serialtic control of the command of the commander serialwithout when the new AGA apphilas would have serial serial serial memory and propriet on the site slow as entitled leading can make programs run a site slow as entitled leading can make programs run a site slow as entitled to the commander of the commander of entitled programs of the commander of entitled programs of entitled pro

A 1204 expansion, it will speed up your A1200 in just about every time. The processor can now exchange high expension of the processor can now exchange information freely with its own batch of Fast RAM, so everything works a title but remother. In fact, the everything works at title but remother in fact, the object to the RAM more than doubles the original processor speed. This intro quite ea good as it sounds — the original processor make of your applications run twice as fast, but it will only the prove them quite to boost.

Then there are the FPUs. These are Floating

POWER COMPUTING £185-£299

A500 A500 A500 A600 A1200 A1500 A1500 A2000 A3000 A1500 A150

EASE OF USE

A bit holdy for modal, but no promise after that

VALUE FOR HONEY

Offer of this chimater approximate for the

FFECTIVENESS

Writes depending on the model, but the Figs RMA insuris a Goldenie

PECKIBILITY

**TOTAL *

A very handy piece of kit at a low price. One of the better choices of expansions.

OVERALL

INNOVATION

88%

External Floppy Drives

An external floppy drive can boost productivity and make life a lot easier - Tony Horgan checks out a few.

Commodore CDTV Floppy Drive
INDI DIRECT MAIL £49.99

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Roclite Drive

In contrast to the Commodore drive, Rooted's affering is the leanest drive you could hope to find. Measuring just 2.5 cm in height, this one has more in common with a Lotus Espat than a P-reg Volvo

The metal case is the best of any theil we looked at, with no sherp corners or protruding screw heads. As for noise, there's a very discrete click when there is no disk in the drive, but not loud enough to imtate in most environments. Disk access is also pretty smooth, with a barely endible mechanism. A disable switch is included which can be used to reciaim extra memory their

the system has sel aside for buffers. A through port is also included If you just went a no-frilis externel drive to cut down on disk swepping, this is definitely one of the best units around. Compect, discrete, and protty lough It's as cheap as eny of its competitors loo, and is so slim that it would fit neatly into any setup

whether you're using an A2000, an A600, or anything in between. The CU levounte





Phoenix Drive

Rough and rugged, the Phoenix drive is housed in a tough metal case. It comes second only to the Rocted drive in turns of size measuring 3cm tall. The asual disable switch and through ports are included on the rear penal

Noise wise, the Proerux is profty impressive, making hardly any either during access or when it's empty. Just the most inconspictions flutter is all year can hear it's one of the loughest drives that you are ever likely to find eny-

where, and it looks like it could probably take quite a knock without sustaining any terminal demoge Tonch as it is, the casing is not quite no to the professionally tinished stan

dards at the Baclife. drive. A pretty impressive et rounder really Considering that it's the same price as Power's Economy

Drive, this looks

like quite e bargain Available from: Phoenix, Unii 2, York Towers, 383 York Road, Leads LS9 6TA, Tel: 0532



BUYER'S GI



POWER COMPUTING £59.99

One step up from the PC880E is the PC880B. It looks identical to the Economy Drive, except for an extra switch of the back, and the more stordy eject button With the switch in the central position, the drives acts normally. Switched to 'A' though, if goes in to anti-virus mode. Now it's impossible to write to the bootblock of a disk. Bootblocks hold the immediate startup Instructions on

auto-booting disks, but they're also a lavourile hiding place for viruses. If the sinve won't write to the bootblock, it's impossible to spread a virus onto any other disks. This won't stop life viruses, however

Put the switch to the opposite setting, and you activate the Blitz hardware that's tucked away inside the case. This is intended to be used with the Blitz backup software that comes free with the drive. The software reads the disk in DED, and does its best to copy it to all other available drives, which is handy if you need to make multiple copies. The menu has options for copying ST and PC disks too, as well as an option for copy protected software, although it a some way behind the protection of most current games.

Available from: Power Computing, Unit 8, Railton Road, Wobner

Industrial Estate, Kempelon, Bedford MK42 7PN Tel: 0234 843388 PC880B with Cyclone



Dual Drive

80%

POWER COMPUTING £125

One drive not enough for you? The Dual Drive gives you two in one. Both act independently, but the main advantage is that they're all contained in one neat unit. The drives are actually PC880Bs, with their own Independent disable switches, and they also come with the Birtz hardware and software. If you need to make multiple copies of disks, or you're currently being driven up the wall by

constant disk swapping, the Dual Drive will make your day a lot easier to lace Strangely enough, it would be cheaper to buy two PC880Bs separately Snrely if you're buying two, there should be some saving? Do it this way and yon'll and up spending an extra liver. Whether it's worth paying extra to have the drives permanently locked together is up to you. The disadvantage you have with the two-in-one unit is that if one goes wrong, it's odds on that the other will be put out of action notifyou've put the thing back together, or got it back from the montr centre. Even so, it you can sort out a deal, the Dnal Drive

will serve you well, and should put a little neatness into your computer set-up. Available from: Power Computing, Unit 8, Railton Road, Woburn Industriel Estate, Kempston, Bedford, MK42 7PN. Tel: 9234 843388

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Thin on the ground they may be, but some Amiga business pack-

ages definitely deserve a second look, as Nick Veitch discovered.

here was an American President who once got elected chiefly through the use of the slogen: 'The business of America is buelness'. Well, the business of the Amige certainty is not business. It wasn't originally designed as a business tool, but then again many of its design features lend themselves guite well to the demends of those who weer auite.

The trouble is that because of the market parception of the Amiga as e gemes/leisure mechine, not a lot of people ere swere of the potential that it has in the realms of business applications. Nevertheless, there era a number of tinencial and other business packages available for the Amige these days, and some of them are pretty demn good, so let's take a look at a selection.

Finance Manager+



Contact: Microdeal PO Box 56, St. Austell, Comwell, PL25 4Y6, Tel; 0726 68020

90%

Arena Accounts

APPLIED SYSTEMS GROUP £89.95 This is a full accounts handling peckage, for use in a small or medium busi

ness. Accounts are built up in a system of ledgers, which is the way most businesses keep track of their money

The accounts ere basically split into three ledgers, one each for sales and purchases and a further one called the nominal ledger. Each of these can be probed for account status and individuel invoices or groups can be separated off for close inspection.

Arene Accounts has every leature that you would find in a similar PCbased package, but that is part of the problem. The Amiga is not utilised to its full capabilities by this software, which is rether badly programmed. There is very title use of the menu, the post facilities are just a straight dump to the poster – which may be all right for a brainless PC user, but is alien to the Amige way of doing things

Aside from that the manual is not much use. There are plenty of exemples. but it gives the impression that it was written by people who don't really understand the Amiga. The result is that it goes through painstaking detail on how to use menus and move the mouse, but rather skips over the detail of what the program is actually doing. If you have an MSc in business management you might be able to work out how to use this package



Contect: Applied Systems Group, The Flerapath, Elehem Wold. Brigg, South DN20 OSP. Tel: 688330

ILICA SYSTEMS £129.95 H THE TELS. .00 22 .12 25 un.

programs

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Contact: Silica Systems, 1-4 The Mews, Hatherly Road, Sideup, Kent. Tel: 081 309 1111.

82%

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THE DISC COMPANY £45.99
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Affaction will state.

Affaction will state lead and save filter in Joses 7-2-3 former, which could be streamly useful for people who want to take their work borns with them there on proper in the state of the sta

Contact: The Disc Company, B.P.40, \$2101, Boulo Billencourt Cedex, France, Tel; 910 331 4910 5995

Mailshot Plus

DIGITA INTERNATIONAL £39.99

his program is not exactly a financial package, but it could save you e pile of dosh. It is, as you may have guessed, a making list handler. It is easy to over look this aspect of a business, but mailing lists can be expensive things to set

up and run Even with a short list of addresses it would be very lime-consuming to write out all the envelopes

ensed hat saves



time, but can itself lead to extra expense if not properly managed

Marishot has excellent search facilities which scan each field of the address so you can find enyone, even if all you can remember is a bit of their postcode. There is also an automatic anti-duplication function which removes any duplicates of labels in your list - saving money and the goodwill of your customers. The software is showing its age. There are no proper requestors and everything looks rather PCish, but it is still a useful addition to your business armoury

Contact: Digita international, Black Horse House, Exmouth EX8 1JL, Tel: 0395 270273



ILICA SYSTEMS £49.99 (SPECIAL OFFER)

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may people and the DTP production in the DTP production complete with a few to the DTP production. In the DTP production is the DTP production of the DTP

Contact: Skica Systems, 1-4 The Mews, Hetherly Road, Bidoup, Kent. Tel: 081 309 1111

87%

Home Accounts 2 DIGITA INTERNATIONAL £54.99

The original Hame Accounts was released over four years ago to aimost instant success. It was by no means perfect though. There were severe tends Yours to the number of transactions and different types of expenditure that could be calculated. On top of that the user interface was a be cumbersome All these drawbacks have been solved with Home Accounts 2. The inter-

lace in particular underwent a major overheal in the end it has turned out looking rather like Wardwarth (which lan't that surprising since

it comes from the same com-pany)

Finance Manager it can handle multiple accounts standing orders, end has a very simstar cheque reconcitiation feature. Il can also handle budgets in the same way, except that it has a facility for income budgets as well as expenditure budgets. This means that you can not only keep track of where your money is going, but also where it is coming from.
In comparison with PFM it is perhaps a little more cumbersome, although

ultimately more flexible. It is the ideal package for anyone running clubs, societies or anything that requires just a little more than a simple up-to-date

Contact: Digits International, Black Horse House, Exmouth EX8 1Jl . Tel:0395 270273

usiness software at a glance

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Not exactly known for his taste in music, we decided to see if Tony Horgan could do any better with art. Here he is with this month's Art Gallery.

UH OH!

Mark Lockett tells us this is his first attempt at painting with OPaint AGA! 'Uh Oh!' shows off the Amiga's new 256-colour mode.





Mewine Into Norms, Mark made 32 uniour ranges for the paper and pattern. The high-tians are achieved with the predict of other fit.





Finally, the gramtin, which had been them accountely by Mark, was positioned ever the sog of the landsground! We think shall the end neutil is granty impressive for a first attempt – and we're asset that you'll begree!



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WRITE BACK

If you have a picture you want to in und sergment procure, ann averec you saw the rooty van merc wording his his rooty van merc wording his van in 1 yeu woude lête your diek referend please kerlande en SAE (taking into acteu heit lieu weiglich and fragisty pi fitaka). Soud your diek to Ait Gullery, Cili Amiye. Periory Dout, 3D-32 Farringdes Lann, Landon ECPR AAU.

The artist behind 'Ship' simply signs himself Hugh. The image was drawn in low resolution with a 16-colour palette, copied from a photograph of Whitby Harbour.





CLAUDIA SCHIFFER Copied from a photo in a magazine, this picture of Claudia Schiffer was converted to the Amiga by Andy Nicholas, using DPaint IV in medium resolution, with 16 colours.



larer deline the various poleur sall shade borders







This started out as a pencil drawing and was adapted for the computer screen by Yannis Ballis.

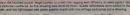






















Andy added a little more shading, and then the body was

The hair was show with the distinct brush is create streets and then glossed over with the Smarth spties.

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vou can't just poke a drill in and hope. Jon Sloan takes his teeth in his hands in the search for an answer.

rat do you get if you cross a dentist with e multimedia expert? For the answer you d have to ask Andrew Gould as he s the riddle personified. Apart from mixing in a little dentistry for King's College and running an Amigt course for the London College of Printing Andrew's a bit of a whiz when it comes to multimedia. He s currently involved in two projects designing multimedia database/relevence sources for professional use

How does he manage to combine all those activ tes into one life? Andrew is modest in his reply, Well. Lonly get a couple of days a week to work on the multimedia prolects. The rest of the time is taken up by locum work at King's and other teaching duties.

VALUABLE LESSONS

Andrew first got involved with the Arriga when King s. Callege decided to modernee one of its teaching packages used to teach the treatment of chirtren's teeth. He started to work in his own time to expand the existing package to include more visual material stills, moving film and voice-overs. It now combines text diagrams, clinical photographs, a volce over and video into ene integrated multimedia tool

Probably the biggest advantage in using the Amme in the way is that the student controls the rate at which he learns. Also, the way that the student digests the material needn't be linear as they can choose to reverw information from any part of the package and there's a handy tracing facility which maps the route they've taken so that they can go back and mread if necessary

Andrew chose the Amiga because of its low cost and availability and its ability to truly multitask. After choosing the hardware, he than had to decide on the software. Not being a trained programmer he needed something that was easy to use yet flexible enough to hendle all the different elements. He chose CanDo 'CanDo was just what I needed. I looked at Scale, of which I'm e great fan, but decided that CartDo was



the top right Indicates decer Right The beauty of a multi ming toel is that 24-bit pictur

more appropriate in these groumstances Later the Dept of Children's Dentstry where Andrew works, was awarded funding from the Dept. of Health to convert and evaluate the software for use by practising dentists. This was a big break for me Both I and my colleagues were extremely pleased with the response from the dentists." In order to overcome the usual But the Arriga isn't a business machine' objection Andrew's planning a pilot launch on the CDTV this summer. Also the package has been shortlisted for the Apple Computer Prize, part of The Partnership Trust Awards, which is a scheme to encourage new teaching methods

AMIGA GARDENING

As a result of Andrew's work with the dental project. when the National Trust needed someone to moderrise their picture archives they chose him 3 teach some multimedia Arriga courses at the London College of Printing and the course Director, Tim Stephens, has very close links with the NT. So, I guess I was the natural choice The Trust wanted some way of archysto pictures

for use in reference work and in conservation projects. They needed a means of storing and comparing pictures of Trust properties to see how they have changed over the years

Work commenced over a year ago on the pilot scheme An Amiga 3000 with an IV24 board was chosen because of the need to display 24-bit full screen images. The screen design and user interface were considered vital because the system will be operated by Trust staff who may have little or no idea how to use a computer. In the end he used a mix of Superbase and CanDo to design a map of the U.K. which could be zoomed in to specific properties

The first stage was to sel up a priot scheme to collate information on one particular Trust property Stowe Gardens in Buckinghamshire was chosen. If was an unqualified success, so much so that a full scheme has been implemented with seven times the functionality of the original. Also, plans are being made to convert the original Stowe scheme to be touch screen sensitive so that It can be used by visitors. Commoders in turn are arranging to supply A4000s to vanous key NT properties for further evalu shan of the scheme its thanks to guys like Andrew that the Amige will

continue to thrive as something other than e-games machine. With his help the Amide is becoming estabished within two major institutions as a senous business tool @



nal Trust Archive starts with a map of the U.K. Th

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CLG to JUNGLE BUNGLE by Len Tocker This game is assentiably on into alriben subventure written manyles for the principle power or more bet anyone are play! You must select air racetings such beauss of all beans at least of principles (they additable with contents of principles) Very additable with contents of graphics. Server en I shall 3 fill is

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Demos, animations, games, music...it's all here in the Public Domain, and it's all virtually free! Tony Horgan takes a peek at the thin end of the wedge.



slideshow owners who want to see what s possible with the new AGA 256 colour graphics. Cynostic have put the disk logether using a selection of tractal lendscapes (realistic ones at that?] and ray-traced mages if your dabblings with 256 colours have gone up further than greduated fills in DPavil, you'd belterget a copy of this, the best AGA



Available from: Cynostic PD, 85 Wyken Croft Road, Coventry, CV2 3AD, Tel: 0203 613817. Disk no. P0008. Price: £2.00 (including P+P). Compatibility: Only works with A1200 aud

t's pretty rare that you ont a mally Impressive PD game Even the best ones are usually



ancient coinops Crazy Sue was a bit different from the rest, because it octuelly looked and fall like a commerci platform game - for the first 10 seconds at least.

Unfortunately, the sequel is a bit disappointing it's been programmed very neatly for a PD offering end the graphics are pleasant enough, but the gameplay seems to have been forgotten. Don't expect any weird and wonderful enemies to shool or squash - all you ve got to do is work your way through some tedious levels of plefforms, making pixel-perfect jumps across gaps and spikes. This anks alougsido early Vig 20 releases Available from: Wack PD, New Exchauge Buildings, Queen's Squers, Middlesbrough, Clevelaud, TS2 1AA, Tel: 0642 246584.

Disk no. G071. Price: £1.90 (Includ-

CRAZY SUE 2 LAST REFUGE

What do you reckou line is then? An RPG? An edventure geme? A Gauntiel clone? Try Space Inveders Swop line shous for soldiers, replace The space backdrop with a castle, ditch your ship for a man with a gun, and you've got Last Refuge. If would be OK if the coulrals weren't so unresponsive, and there was a bit more going on, bul os it is lihere's little to keep you interested Try II only if It's the last gome ou earth and you v



Available from: Roberta Smith DTP, 190 Felic Way, Hampeteed Gerden Suburb, Loudon, NW11 6JE, Tel: 081 400 1020-0000 SCA162. Price: £1.40 (Including P+P).

You can I beat a good Junnel effect - oue that pulls you into the screeu and takes you on o inp through time and space. Tip, blag the biogest TV you can find, turn off the lights, crank up the stereo with



same mad techno, and boot up a happening demo preferably oue with a good tunual affect on a So, you guessed it. Lethal Exit features a tun effect, sud a pratty good one it is too. The trouble is, it's only on screen for about 30 seconds, it's tollowed by a spinning floor logo and a light-sourced polygon, which gives way to a stream of vectorboos In al spiral out of the screeu. It's rounded off by a full screeu Gleuz and a bit of fantasy artwork The soundtrack starts off well, but it lades into the realms of supermarket music towards the end. Not a stormer but it has its moments Available from: Cynostic PD, 85 Wyken Croft

Road, Coveniry, CV2 3AD, Tel: 0203 613617, Disk No. D0041, Price: £2.00 (Including P+P).

This is a strauge collection of times, oil from the

same musician. Some are pretty merbid, with htBreed quality is



way of describing them - complete rubbish would be another Available from: Roberts Smill DTP, 190

Felloden Way, Hempstead Gerdeu Suburb. London, NW11 6JE, Tel: 081 455 1626. Disk no. SM228. Price: £1.40 (lucludlug P+P).

PLANE

Here's one of those mellaw demos that doesn't try to blaw your mind

Inclead it's happy just making yan think Hmmm, that's quite nice" It's been coded by Funky Bndchas and appropriately enough. The soundtrack is laid back jazz/funk, with same excellent rhythm outer and slapped bass samples, yeening towards early Level

Some of the visual effects are spoil by the laxt that appears aver the

like this kind of music Available from: Cynostic PD, 85 Wyken Groff Hoad, Coventry, CV2 3AD. Tel: 0203 613817. Disk no. D0050. Price: £2.99 (including P+P).







MUSICLAND music demo

There's a lat at this sart of mosic on the PD curcuit. You wanidn't expect to hear it anywhere else and to be hones! I wonldn't really went to What sonnds fine as a backing to e demo or e disk meg. cen often sound rather twee on its own. This is a neatly compiled damo from Brainsform that majors an the music, attering a choice at five tunes. Technically they re all excallent, with some pristine piana and guitar samples. Musically They're best described se typical demo Innes. One Avellebie from: Cynosiic PD, 85

Wyken Croft Road, Coventry, CV2 3AD. Tel: 0293 513517. Disk no. S0939. Price:





MINDRIOT

demo

This one's from Andrameda, and lucks aff with a frendy kind all cinematic countdown Intro. As is affan the case it's the intro that's the best part - it's not particularly stunning in itself, but il suggests that there's something special instairound the opner. After this, most of the effects are displayed in a gnarter-screen winday with a scrolltext beneath Some ere nice enough, like the vector cuboid with a mirrored surface, but others are just plain boring, like the 'six resitine calculated circles' that the coders seam sa proud al

Available from: 17 Bit, 1st Floor Offices, 2/8 Market Street, Wakefield, W. Yorks. WF1 1DH. Tel: 0924 366982. Disk no. 2438, Price: £1,75 (Including P&P).

onimation

Here's the best and matlan to come and menths. The plot is a familier one, with to get his girl harr

a foul-playing rival. Needless to say, after plents of snow-related slepstick (skiing into frees.



Don't bother if yet/ve anly got one drive. nniess van er av continuelly swapping disks for I 0 minutes. On the other hand II you've got an extra drive, and tency a bit at a glogie. Snow Jake should bring a smile to year face Animatian lane shantd gel their copy as soon as

Available from: Cynoslic PD, 85 Wyken Croft Road, Coventry, CV2 3AD. Tel: 9203 613817. Disk no. A0025 e+b. Price: £3.99 (including P+P). Compelibility: Requires at lend 2Mb to run. 889



POP QUIZ

£2.99 (including P+P).

game this is a Mika Read-Ires zone. This hesnt really oal enything to da with the

Sets mer . Show Ther to THE REAL PROPERTY AND PERSONS THE PERSONS show, or

The old tie in game from Etita II's along the lines of a pub quiz machine, but the main difference is thet you gal the same questions in the same order every

You start with no points, and get 10 for every correct enswer. Each time yau get a gnestian. wrong, yan lase 10. The game's ever once you lose all vant points. It's fun for two or three games, but after that you ve got to go through all Those questions agein, just la get la where you ware before. The gnestians ere a bit easier than on most coin-sp guizzes, so it's more a metter of skill then the lottery that it usnally turns ant to be Even so. the linear formel lets it down, sa you prabably wan't want to pley it mare than a

Available from: 17 Bit, 1st Floor Offices, 2/8 Market Street, Wekelleld, West Yorks, WF1 1DH, Tel: 9924 386982, Disk no. 2426, Price: £1,75 (including P+P).

DEMON DOWNLOAD

demo Normally e two-disker would dass

from the doesn't quite

tag, desprte sorna impres sive stuff, it starts with air expusitely

loga. Staying in hi-res, it puts up a picture all a computer running Global Trash, one of the Stients better demos of last year. Next no is a spooky muoshot of a nasty poblin type-thing, which snaps into a close-up, belare a brief sessian of morphing data and sinns waves starts to mellow things out. Just when it was cetting good. It ends with a pory little animeten. This is a bit short, but still grate entertaining

Available Irom: Wack PD, New Exchange Buildings, Qneen's Squere, Middlesbrough Cleveland, YS1 1AA, Tel; 9642 24 6584, Disk no. D014 1+2, Price: £2.59 **9709** (Including P+P).





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Mat Broomfield opens up another box of tricks as he takes a peek at the latest and greatest PD utilities to come his way this month.





BLUE ROSE FONTS

With all the enthusiasm and excrement that scale able fents have caused in design circles recently its easy to forget how useful and attractive unacsiable screan tools can be, especially for

Blue Rose Forits is as good a reminder as yeu're likely to get - it brings together 51 such lants, and it's a long time since I ve seen so many eriginal exemples in one ge-

Each lent is drawn in full colour and occupies e single low-reselution screen, the Idea being that you can cut and paste the letters individually as you need them. One use that you might like le consider, and that is certainly a good way el showing off these mervellens fonts, is vidue one lock werk where high-quality fents such as these ere Invaluable and werth quite e bit more money then the measly £1 50 per disk that the author is charging for them!

If yen have even the lainlest interest in art, graphics or video werk you simply must buy this disk. Even if you don't make any use of the lonfs some of the art is inspring!

Aveilable From: Blue Rose PD, 33 Glenmore Welk, Hilden, Lisburn, N.Ireland, BT27 4RY. Disk ID: BRFonts Price: £1.50 (including P&P) Cheques payable to Eddle Barry Competibility: All Amiges. Memory:

FINAL FRONTIER ISSUE 4



"Space - the final frontier" So began the world s most popular and enduring science fiction sensis Since then, Star Trek has appealed in dezens of languages and has gained millions of leval fans throughout the weild. It has generated thensands el pounds in mamerabilia, and new generations are drowing to admire Kirk and Spock, thanks to the Boob's londness lei ropeets. Beeks, videes end plestic models of the characters have all come popular gifts for the Trekkies among us One group el dedicated fons have put together Final Frantier, the Amiga s only Star Trek disk meg. Issne lenr has just bean released and with a supporting cast et Amiga personalities such as

Tobias Richter and Biom Lynne, it's looking better than ever It comes on four disks, each of which boots independently. Each disk contains a mixture of articles, discussions, fiction stones, news, digitised

phelographs and music. It's written by some at the UK's most knowledgeable Star Trek lans, and even has

contributions from the show's production crew



Needless to say, the magazine is e veritable freesure trove of interesting Trek trivial A lot of its content is absolutely unique, such as the nnesed Next Generation script for an episode

in which Beverly Crusher's husband comes back from the gravet The mag else contains a few Tebias Richter enginals - superbilay fraced screens depicting

yaneus fictitiens scenes from the show Lively reader debates, an adverts section and special readers' offers complete this saperb diskbased fanzine. Anyone with mere than e-passing. Interest in the goings-on on board the Starship Enterprise should get themselves a copy of this IYas Mat but what has this to do with PD utilities

Available from: Infinite Frontiers, 14 Rouseden Grove, Great Berr, Birmingham, B43 5HN, Tel: 921 358 1213. Disk ID: Issue 4. Price: £5.00 for all four disks (including P&P), Cheques payable to

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we like to ask you, our valued reariers. In nick up your pens and let us know your thoughts and

opinions aboni CU Amige. This is your chance to tell us what you think of the magazine (go on, we can lake (ii) It's been another hectic year of change on GU Amigs and we want YOU to loll as what we're doing nght and whet we're doing

You might think that questionnaires are a waste of time end that no one s going to be Interested in what you have to say Well, you couldn't be more wrong! Each questionnaire we receive le carefully scrutinised and each comment has a direct bearing on the future development of the magazine Last year, we received a staggering 5,000 replies to our questionnaire and, as a direct result, we introduced Bookshelf, Clnb Cell, Art Gellary, Amiga Profiles, Bnyer's Guides, Step by Step Iutonate and Readers Offers amongst many other new features and columns. We also reagged onr score boxes, simplified the mag's dasign, and bought up fall pace commercial programs for our coverdisks. So you see we really do listen to what you have to sey, SO SAY IT!

Of course, no questionneire would be complate without some form of finencial inducement. so we re also giving away more than £3,000 worth of top-relad softwere in a special phase draw. The sender of the lirst survey out of the bag will win £500-worth of softwere of their choice, with the next 25 runners-up receiving £100 worth of top quality utilities and games for Their Amiga. If you want to vent your spicen, now's your chance.

wase by and nameer overy quantine. If ye a're ninch lor as ower to any particular quantine simply miss it and and go to the and son, Meed opposition simply require a file or, but come require more extensive assessment of pieces, and complete as much of the presidence as powerful.

UTTANT: Where apprapriate, please tisk I s in Indicate your ensurer. All information Formatics will be decided in the administration formatics will be absorbed in our other news

1. Abi	out You	
Addre		
Age . Sex		Male Female

2. What do you do for a living? Al school Forther Education University/Poly Full time work Part time work

Unemployed 3. What's your ennual income? £2,000 or less £2,001-£6,000 £6,001-£10,000 £10,001-£15,000 £15.001-£20.000 £20,001-£25,000 -

£25 001-£30,000 £30,001 nlus 4. Whel do you use your Amigs for? (Tick more then one box if necessary)

Regularly Sometimes Never Games Mnsic Graphics Programming Word Processing Education Commu Video

5. What type of Amige do you own? A500 (512K) A500 (1Mb) A500 Plus A600 A1200 A3000 A4000 Amiga CDTV

Multimorto

Ponter

Other (please specify) ... 5. In the next 12 months, are you interested in purchasing any of the following machines: ARDO A1200 A4000 A570 CD ROM of the

7. Do you own a memory expension for your mechine? Yes [No T

8. Which of the following peripherals do you owo? Intend to buy this year Monitor Disk Drive

Action Replay Sound Sampler Modern MIDI Interface Scanner

Video Digitiser

PC Emulator Accelerator Card 24-Bit Graphics Card CO. BOM Drive Q. How much I lime per week do you spend using your Amigs?

Less than 2 hours 2-5 hours 6-10 honrs 11-15 honrs Over 20 hours 16-20 hones 10. How much have you spent on Amine hard ware during the last year? How much do you intend to spend during the next 12 months?

Last Year This Year Between £20-£50 £101, £200 £201-£300 £301-£400 2601-£700 £701-£1000 More than \$1,000

11. How much have you spent on games softwere lest year? How much do you think you'll spend this year?

Last Year This Year Less then £25 E51-E100 £100-£150 £200-£250

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More than £300 12. How much have you spent on non-games software during the lest year? How much do you think you'll apend thin year?

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13. Whel other computer magazines do you regularly bny? (Tick more than one if necessory)

Amigs Action Amica Formeti Amiga Shopper The One Amiga Computing Amiga World Amiga Power Amiga Force Amige?

Not important

Docasional Influence Major influence

>> 14. How importent is the content of a magezine'e coverdiek in influencing you to buy CU

15. On a scale of 1-10, how much does a cover Pray-To-Win disk influence your decision to buy CU Amage? Competitions

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, and the second	PD Scene	33. How long have you had your Amiga?
		Less than one year
Absolutely important	PD Utilinies	
	Readers Offers	Two years
5. Do you prefer a magazine to come with two	Book Shelf	Three yeers
eks at £3,95, or have just one disk at a	D-Paint DIY	Four years
hespar price?	Warkbench Guide	Over tive years
disks/£3.95	DIY Guide	
disk/Reduced price	AMOS Guide	34. Are you plenning to buy an A1200?
diskrindaded prior	G&A	Yes, within the next six months
7. Where did you buy this copy of CU Amige?	Backchal	Yes, within the next 12 months
	Club Cell	Yes, but I don't know when
ocel Newsegent		No.
ubscription	Points of View	NO -
hain Store		
omputer Store	24. Have two got the right balance between our	35. Would you like to see the free Amige
ther (please specify)	lechnical and games coverage?	Guides become a reguler part of CU Amiga?
and thouse shoots!	Yes No E	Yes 🗆 No 🗆
8. How many other people will read this copy		:
s. now many other people will reso this copy	25. If you enswered no to question 24, how	36. If you enswered yee to question 35, who
I CLI Amige?	20. If you answered no to question 24, now	would you like to see I hem cover?
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3 3	More technical coverage	
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9. Il there's one thing you could change about	26. Dose CU Amige give you enough Informs-	Beginner's Guide A1200
CU Amige to make it a better read, what would	tion to make a buying declaion?	: A600 Publio Domain
t be? (Please use a apparate sheet of paper if	Yes No No	Programming DPaint
hers (en'l enough space for your enower.)	(It 'No', what could be done to Improve our-	Other suggestion
tiera ten i enough epece for your enouser.)	reviews?)	
	(enemar)	37. Which member of the CU Amige staff
		should be given the order of the bool?
		Dan 'No, Not Me' Simgsby
		Dan No. Not Mill Singsby
	27. Do you buy Public Domein softwers?	Jon 'Keep on Reading' Sloan
	Never .	: Heather Good Girl Turiey
	Occasionally	Nick Next' Verich
	Regularly	Tony Nope Horgan
	regulary	Steve Only One More James
	26. Which sort of PD ere you most interseled	Garry 'Yes This is the One Put Your Tick Here Williams
	in? (Tick more I han one it necessary)	· ·
		38. CU Amige has reguler reader penels wh
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ought in the lest year?	Music	we discuss various points about the magaz
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	Animations	younger reeder groupel), the idea is to sleg
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es No L	Virus Checkers	and fear the magazine to pieces. Would you
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	The second secon	Yes No
2. ii you enswered no i a queetlon 21, which le	29. The Amige CD console will probably have a	Yes No
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dease)	buying euch e machine?	39. Finally, before you nod off completely,
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The One	over the next six months? (Number in order of	
miga Formal	preference - "1" Indicating first choice, "2" your	
imiga Shopper	second preference, etc)	Phew! And that's it.
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his month's issue?	Word Processors □ Business Software □	
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ISSUE 5 MAY 1993

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149 BOOKSHELF

A plathors of purple prose is examined by the CU bookworm learn. Save yoursell hours in the bookshop by detiling genned up now.

154 GRAPHICS DIY

This month Peter Lee takes a four through DPeinfs colour facilities. Mastering a limited patents is one of the hardest things to do — make that learning curve so much smoother with Peter's guide.

158 WORKBENCH

Join Mai Broomfield as he once more delives deeply Into Workbench to see how it interacts with and is used by other programs

160 DO IT YOURSELF

Grab your soldering from 'cost DIY is backt in the return of this much-praised (well, we thought it was good) column, John Kennedy guides you through the introcacles of making your own samples.

164 AMOS COLUMN

In the second part of our guide to AMOS games programming, Davis Smithson starts his version of PacMan by taking a look at screens, icons and maps.

169 QUESTIONS & ANSWERS Mai Broomheid sorts through another packed mailing of

Mail Broomfield sorts through another packed mailpag readers' questions. Got a problem with your Arriga? Don't worry, Uncle Mail's here to help.

174 BACKCHAT

Wearing the gag that Dan put on him after his lest venture in letter answering. John Sloan thes his best to be poitte. Also, back by popular demand, the Team Profile section returns with more equirilous runous about the dury dealings of your favourite aditional staff.

177 CLUB CALL

Amiga clubs from as fail epart as Torquey and Germeny are profiled in this issue. If you're desperate to get in touch with like-minded individuals, then this is the place to look.

178 POINTS OF VIEW

Our resident Tech-Ed spouts a few syllables in the defence of progress. How fest should technology advance? Nick Vertich has an answer.





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explaining the besics of MIDI

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he subject metter. There are meny detailed illustrations and pholographs of MIDI herdwere sequencers and drum machines.

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Preliminaries out of the way, goes into orest detail explaining

end the Amige then I suggest you

ing reading Avelleble from: Compuler Bookshops Sirminghem, West Midlende, B11 2BA. Tel: 021 706 1188

PROGRAM DESIGN TECHNIQUES FOR THE AMIGA

KUMA £16.95 No matter what language e program is written in, its structure and deargn

is very important. This book sims to leach the basic techniques of good program design to both experienced users and enthusiastic beginners. No

previous knowledge of program basign techniques is needed Indeed, such knowledge would probably be counter-productive because

PROGRAM DESIGN



BUCE SMITH

Although the A800 is a great machine it's not very user-iriently for the beginner. This book is Intended. as an alternative to the manual theirs supplied with the computer. Although the original A600 manual is informative and provides all the necessary information you need to get to grips with the basics, it doesn't on min very much detail. Furthermore, you'll need to read through a lot of irrele-

vent stuff to find the Information that you really need This book, on the other hand. wee written with the first time user in mind. If starts off by taking you on e guided tour through the Workbench, windows and menus, not only telling you how to use them, but also explaining why you should went to Naturally e lot of time is exent explaining the besics but the book is written in such a way that this doesn't become bresome for more experienced users, and is actually

quite amusing in placee The book progresses from the Workbench to cover subjects such es the uses of disks, manupulation of files, how to use Amiga Shell, script Nes, loons, printers and a lot more. If even devotes entire chapters to multi-tasking end virusas

There are parts of the book where Ico much time is spent simply rehashing the Workbench manual The book includes many tutonels

this book eims to mould your design lechniques from acratch The book is split into six parts, each consisting of several phapters

In the first part Paul explains how Wemer diagrams can be used as an eld to the logical construction of a program. He elso discusses símple mathematical logic and the basics of Structured programming

He then moves on to describe computer languages, illustrating the

The book gives specific exemples of the three most popular Amica isngueges (Basic, C and Assembler). It elso gives individuel hints, edvice and full tutoriels with detailed explonations for each language. This makes il much sesiai loi the reader to modify the ideas in the book to his own programming environment.

As the book progresses a good understanding of your chosen probecause Peul's lutonals assume a high level of competence. The book does contain some really invaluable information and tips and will delinitely be a great aid to programmers of all levels Available from: Kume Booke, 12

Horseshoe Perk, Pengbourne Berkshire, RG8 7JW. Tel: 9734 844335

AMIGA A600 describing both the very simple and more complex procedures. I have no INSIDER GUIDE doubt that someone who has never

used an A600 before will be perfactly comiortable with this book, I recommend the Amige 600 Insider's Guide to anyone who wents to understand their computer and found the manual that came with it a little herd to follow if you already here a basic knowl-

edge of the Amiga, you might be better off with one of BSB's Mestering Amiga range of books, which are more detailed and advanced in their poverage Available from: Bruce Smith Books Limited, P.O. Box 382, St Albans, Herts, AL2 3JD. Tel: (0923) 894355





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CHAOS AND COMPUTERS

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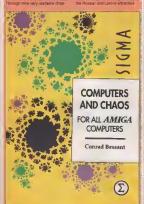
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serves as the backbone of the bool

ters, author Contred Bessent explains the foundations of chaos theory, to applications and its many diverse forms. All of this is backed up by some very well documented listings written in Arrige BASIC.

This is perhaps one Islang of the book — afflow) Corrad does mention the more popular dialects of BASIC available for the Annie, both AMOS and the excelled BItt Basic end dialects of the Annie BASIC available the the Annie BASIC available the the Annie BASIC vouldn't here bear auch a bed often if it werran't for the table that the Commodore adopted bunding ill with Annies over two years ago! Oh well, et lead he dight Jump for something to folly ridiou-

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PAUL BOCII

SPREADSHEETS Y

Spreadthests may not inspire the earns sort of eribustiasm as your everage 24-bit rey-tracing progrem, but no-one could possibly doubt their usefulness. Even if you're not the accountant of a multi-national concionaries, a spreadsheet can prove

MADE SIMPLE

to be one of the most evaluable end cartainly one of the most continent useful pieces of software you could ever buy for your Amiga. If you've got wen the slightest interest in spreadshests, then this book may be of interest. Although it not based eround native Amiga. spreadshests such as Gold Dek's Lotus-beating Professional Calo most of the Month of the Amiga.

elly applies to just about any sopreadtheal program including ProCalc, Adventage. Plan-3 and the real of the Amiga, spreadaheal crew The book is actually based around a sharaware PC spreadsheal called AsEasy's which could theoreboally be not on the Amiga using a PC emuletor program. Amiga spreadsheals tend to operate someany differently from the classics:

Lotue 1-2-3, so be prepered to dive

you wish to translate the Lotus-like keystrokes discussed within the book to your own spreadsheet.

The book starts will the usual force into spreadure theory with some lenty readable basic explanations of what as presentable is, how they work and what they can do for you it then goe adown hit is bill you explaintly how to Install Addesyyde captainty how to Install Addesyyde captainty how to Install Addesyyde captainty have been sometimed to be a soft in the programs. Allowagh this is dispensed with failty quickly, it has to be said that the book's Abealyak bits is at bill too overwhelming, ell times, I thought have a said on a surface of the programs. Allowagh with a single programs and the programs and the programs and the said of the said of

Obvously the book's main aim is to teach the verings soreached user the many applications that the admit admit and the admit a

No-one could possibly doubt the euthor's knowledge of his chosen subject, but the book reads more like an AsEssyAn user's manual than a study of general spreadsheel use. Although anyone with a bears under-



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DELUXE PAINT 4

Peter Lee gets ready to paint the town red this month as he takes us through DeluxePaint's confounding colour capabilities.

Nen that the most-need mode in DebusePeart is low resolution, it's a miracle what can be achieved with first \$2 obours. It may sound a lot – ntill you by to create something using shades and shadows when the patents disappears taster than getecrashess at a Mike Tisson party.

Mike I yson parry
But cotion is what visual impact is still about; it
creates moods and realism, so being able to controit it in DParalis cane of the essential stopping
stones to getting the most out of the program it
may seem obtaines, but printing down just how to
manage the palette is enotities big stop towerds
making your work more professional.

IN LIVING COLOUR Low resolution mode is a leature of the Amige, not

of DelizedPant. Memory and display limitations mean have on access 18.32. A special exception to these it halfords mode, where you original plaints the set halfords mode, where you original plaints of 32 st doubted by some cleves display dodges Cleves yes — but don't be fooled into thinking you have 64 colours to change and.

edit as you like, because the second half of the palette is merely a dimmer rellection of the first 32 colours So II you ed) one of the original colours in the palette its dull twin in the second bank of 32 colours will change too. It may sound like a good idea gone wrong, but halfbrite really comes into its own when you need realistic shadowe in your work. By nsing helfonte as the fill option II s possible to create terrific lighting effects in your work. And the program takes care of every thing for yon; when hallbrite till option is active, it will replace the existing pelette with the halfbrile values of the colons underneath to give a realistic

display of light and shade
TIP: To nn-helibrite an area,
use a fill tool in halibrite till mode
with the right mouse button
clicked This won't affect the
standard 32 colours on somen,
so your work keeps its Integrity

TIP (OPaint (Vonly) II you have a HAM image which you want to convert to a more etandard formal, then by changing the screen formal of colonis rather than the standard 32, OPaint will have a wider range to work with, and make a much better stab at interpreting the HAM patette.

HIGHER AND HIGHER

THEOTHER AND THEOTHER
The higher the road look, the fevest doctors have
The higher the road look, the fevest doctors have
The higher the road look, the fevest doctors have
three when colvel so it important. For instance, it is
you are desproying voice to the you want to be only
only half a dozen colours. You can what feel the
compact display possible and will probably need to
you have a good possible and will probably need
you have a to dawny alleady on zones and you
you have a to dawny alleady on zones and you
zone has not have been been a good and the
control on boother mode, the program is fill or
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Using an olion from lest mortin a futuritie on perspective and just a law celebrar, by use or create a city scope without ET enrolled special to special or special warm. The cell judgities are sentently with colour cycling analysis or shift of plasmod officered indicates, the grid future to cell cells with colour cycling analysis or shift of plasmod officered indicates, the grid future to cell cells of plasmod or and officered indicates and cells of plasmod or special plasmod or spec

Arranger

Toronto March

There appraises week in exactly the same way as there on the polette connect

intry manger of potours is streptified in Chiefut IV throught peletin ensured. Up to 25 colours can be defined, kept, cited and reved uning this requester. The sets are independent to the mode year or working in, so that white your may enjoy a 32 colours in the pateits, you can exit you may early a 32 colours in the pateits, you can atili you may early as 32 colours in the pateits, you can atili you may early as 32 colours in the pateits, you can atili you which a nea are of that 32. Golding just the right exists a made seary by the a col ha fell.



Great han, colean systing – especially for dark nights. Here a Richering candia flame spinners in the brease COC, it a any a patture – on the pour implainated it is solvious as ordinated a sinear, long in shalled pour, and the set is the budgetoned and the part of the flame and if the page and the second of the when parts of the flame and if the page as and this seem to ifficient The flame itself is drawn using all colours in the range so that dech persion will have a spat it is supply privately.

PAINT IT

Ething colonin is simplicity issel in DPanil III, but in a little more complicated in DPanil III white is special colour regineds and DPanil III white is special colour regineds appears based on a HAM postate. These this anivorsalized of principal cocosis to all the HAM modes 4-4986 colours for more, but is solve at lense and a little disconcerting in anyone lambias with the DPanil III required in the expectation of principal color in the area on the tool patient which shows the current on an other background of colours.

Tawing Different Millst, colors can be selected in on of how weap, white click on the colors in the requester of on an assisting policy or section in the requester of on an assisting policy or section. PRES, box can increase or dispenses the amount of Rest, Blase or Cirestin in the selected colors. Similarly, alternia galance under HSV control alea. Satistation and Value seldings. And whereas PRIG international colors and the selection of the colors and present the colors of the colors and the colors and the selection and colors and the colors and the colors. A proper through the as well departed trom, say, but speech to guid time, and Values of the colors.



Different medicals move allows for some amazing checks, Take this mirror intege for instance. It leaks as though the period to seeing firmed reflected to gloss thanks to the public a own mirror. It calcular which are timeser than the enginest paster. To create shall only on all the shallow should be first than the continue that only one of a firm that they are timeser than the calcular and a firm that they have the timeser than the calcular as frequent than the calcular than



HOME ON THE RANGE Perhaps the most useful coutrol on the palatte requester is Range sluce a sequence of similar colours is of tecrific beugift for almost all applicatious. Take something simple like a leaf to realistically represent one you will need at least four varsions of green - for shadows highlights and detail. And the way to get just the right shades is to define the lightest highlight, and four cells away on the polette box. The derkest green shadow. In DPaint III, here's what to do next with either colour of the currently active cell, click on Range, when the pointer changes to the word 'to', click on the other extreme of greeu in DPaint IV colour rauges have been separated from the colour requester, and can be accessed via the colour menu. Colour selection is hendled differently and you can creete ranges much more Inluitively by clicking ou e palette colour, then posibonlug the beed of colour you 'pick up somewhere on the range bar (the top dotted row). Up to eight

ranges can be created in this way and they are uumbered by a sliding counter at the lop left of the

TIP: To save time, you can elect colours from DPaint IV's palette by pressing the square bracket keys when a bead of colour is active ou the pointer. This cyclos through all evadeble colours

colour too TIP: to quickly define a range of shadows and highlights from the polette requesterdeline the lightest or derkest value of your maju colour, then use the palette requester's Copy commend to place a duplicale iu e celi some distauce away. Now by ediling the Value slider you can darken or lighten the colour without having to go all the way Through the colour defutiou proce

BELLS AND WHISTLES lu DPent IV the ability to save and load individual

palettes is very useful, but users of the older verslon cau easily mimic this function, I find the



Cycling is active, a single drop of blood falls down the screen; in his ky four drops are firmen, saling a range of crious which inclus three to metch the beckground and one for the blood. As the es cycle , it appears as it the red drop is moving doeses



She thisty appearance which billoon when eveling is turned on

cycling on the water the illusion that it Hider spaced

bottom, it also gives a feeling of nomen tun.

When cycling is activated in this image, the water plummate toto the peol. This is activated by Blanking the water is released to the mode Ope PT) coming a season-energed broate [10]. The stricts of glately are almosted by hereing brush steedars further open mean the bottom of the left, where the water has lost earner within leveliness. The place where the water hits to good was created using the state cycled collisions will be fall, flut with a wingle resid broate, a harvered Smoothing created.



A step-by-steg golds to how the waterfell ocone was created, showing the Brush, cycled colours and the paiette range of biues.

quickesi way to 'save' palette Information in DPaint It is to cut out and save a small brush from the screen whose palette you want to keep. Then when you want to revert to that palette eny time, you can simply re-load the brush (which takes up Colour/Lise Brush palette menn option. DPaint IV's colour sonicing is more sophisticated than this because of the Arrange Palette function. This is accessed through the Colour/Palette/Arrenge manu, and allows you to create rows of alternative paleties (again through HAM trickery - you can still only have 32 colours for drewing in a low resolution palette) There are 256 colonrs in a coloni set, and you can define under here, and swap of delete colours. This is particularly neeful in HAM, and can help you get the right shade in more lim ited palette environments in ellect you can organise colonis into several ranges to hit on the nght colour, then copy that colour into the corrent working palette. An alternative in DPaln; IV is to nse the colons mixer, which is the wide grey area to the right of the galette requester. Painting in this area with one colonr then adding enother produces be chosen as a current colour. You may find this very haphazard, but it does duplicate a function lound on very expensive computer graphic work stations, and it is a grafty claver way of glying you

Instant access to all 4096 colours at once TIP: Some other IFF point and display pro grams hit problems with DPaint IV images which



paiette requester sice operte e relating even to the right, where colours from the paiette can be blooded. This area is not years in - the whole garnet of displayable octours is evaluable for you to above from then place in the real polatic, which is shown along the toe life.



the changes in a slogle colour Storply by sharing the Value or Soursiton levels, you can achieve many delicate solours, with out having to get involved in the mera complicated fied, Green,

GOLOUR GYGLING

ability to make a colour 'invisible'. By making a ball for instance. Use black as the backgroun colour and define a range of six colours. Make ance, paint one brush stroke on screen

ising the second colour in the range. As it's black, you won't be able to see anything - but it TiP: more of

more often than not you will find that the when all you want is your range of colours to do the real one, but use the same colour (outside

cycling effects. DPaint IV has its own unper version which allows you to cycle any one colour in the palette. I this were the Middle Ages the prosecond to none. To get the single colour cycle to place if to the right, then activate Show to create the lamiliar spread of colours which we came

Although the Shown range doesn't reflect the current paintte - it is a 'basi option' guiblant showing all available colours in the palette - it NOT in the current palette. This may all sound onto all the Arriga's colonrs, regardless of your and makes that the current colour By picking up cycle on just one colour, leaving your onginal points unaffected. And it any part of the new range is the same colon; as the background, then the single colour will be invisible to: a porton of

TIP: You can tell which colours on the range ber are currently in the palette because they have a block dol node: them.

have Colour Set Information saved along with them. The only solution, until third-party programmers upgrade their software, is to ensure that if you are neing other art packages with your DPaint IV Images, the colour sets are not defined

ON YER BIKE!

Colour cycling is a cheap and cheerful way to give some semblance of movement to otherwise static single screens DPaint achieves this by allowing

you to define a range of colours - from two to the whole palette it necessary - which it will then cycle through at whatever speed you choose. Cycling one in the palette, it, for example you hab just two colours in a range, say black and white, and had enything drawn on screen in black, with coloni cycling enabled the object would alternate tween black and white

Not only is coloni cycling cute it's an absolute doddle to set up and gives some terrific singlescreen effects. From bounding balls to running water, colour cycling can bring en added touch of realism to your work. In en earlier arbole on this, we covered the range regnester, which allows you to define any number of colours as a range; as



shifty to cycle (set one neteur; award like a centradiction? Well sort of, until you understand that the cycle range of the one colour the cycle range of the one colour is because on one and in the start in the palette, plus any other colour the Amiga can display – regardless of which mode year're. I here you are see a range of solours defined which sell not only on one colour slot in the material of 2 but which evital that not ently on one unloar alot in the petetie of 32, but which cycles that pages or 32, but seven eyess in single soleur from scarlet to park when Cycling is stabled.

well as being the fill range, they also automatically become e coloni-cycle range too You can use colons cycling in two ways -- for dynamic movement, such as a ball falling, or sublie suppossions of animation, like water shimmering. Take a look at the penul for a few

hints on getting the most out of cycling.

NEXT MONTH
In part live at this fatherd, Patre I on takes a book at another much methods onliced, front. Most oriest take at the greated, but by using submisses we've contend so the your control as great this somers, we well on measure and print out of add on hamolatis.

SOMETHING FOR

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POSTAGE

Mat Broomfield

delves a little deeper into the workings of Workbench to discover how it interacts with other programs.

o far, we've only looked at the physical construction of the Workbench loons, windows, menus and so on Obviously understanding these is very important in order to use it fully, but now we're going to take a look at the wey that it can be used by other programs

When you load Workbench and open the main window, you'll see a paliection of drawers Open these and you'll find lots at individual tool (cone such as Printer, Fountain, Shell, etc. If probably seems that the Workbench disk heale lot on it, and this is true - but for every file you can see, there are at least three that you can't, and these 'invisible' files are just as important as the visible ones. if not more so

You may wall ask 'if the invisible files are so Important, why are they hidden in the first place?.. in order for a file to be 'visible' - that is, for it to have an icon which can be seen on the Workbench screen - it needs to be accompanied by a .info file (pronounced dol info). A .info file basically contains information about the loon's physical appearance, and elso certein loading nformation about the life it relates to. The trouble le, info files occupy around 450 bytes of disk space each, and because space on the Workbanch disk in so precious it would be waste ful to give one to every single file on the disk especially as many of them are never directly accessed by the ordinary use:

The mejority of the files on the Workberich disk can't be loaded individually and used as stain delone programs in the same way as, say, DPaint can. They generally have to be used in conjunction with other programs. Therefore, there would be no point in giving these files worrs when they couldn't be used in their 'raw' state anyway,

SYSTEM CONFIGURATION One of the most important of these lifes is called system-configuration and it can be found in the Devs directory This file contains lots of crucial Information about your Workbanch environment, such as the screen colours, what printer driver you're using, the shape and colour of the pointer. etc. Under version 1.3 of the Workbench and sar les, the system-configuration file is the computer's sole means of determining this information. When you load Workbanch, the system-configuration file is also loaded to see how things should be set up Workbench 2 and above allow you to specify a

number of additional things such as the graphic pattern of the Workbench screen and the input map the specify ing which language the keyboard is configured to eccept). For this reason, additional configuration files are needed, and these are stored in the Prefs/Env-Archive/Sys diewer of the Workbench disk

If you open the Prefs drawer you will see a number of programs, all of which are connected with setting these preferences. For exemple, if you load the Phriter progrem, the set lings are taken from the system-configuration file. You can then choose to modify those settings in any way you like. Whenever you change the prefstances via any of the prootems in the Prefe drawer, the system-configuration file is also updated (sa ere the files in the Prefa/Env

Archiva/Sys drawar if appropriate) Now here's the really handy bit; if you load another program vis the Workbench, the new progrem will use all of the preferences that you've set for the Workbench. This means that if, say, you load a word processor or graphics package, they will automatically use the Workbanch printer set tings that you specified

Another useful feature of the system-contion file is that you can copy it directly to the Davs directory of another bootable disk and that disk will automatically use the preferences specified.

The other main group of 'Invisible' files on the Workbench disk are the commands in the C direct tory These commands are used by all AmigeDOS programs and can only be accessed using the Command Line Interface (CLI) or a script (such as the startup-sequence) which is processed in the same way sa CLI commands are. On Workbanch 2 and leter, there is a further way of getting to these commends. By estecting the "Execute commano' option from the 'Workbench' menu, you may enter a command into a small lext gadget. This is, in effect, a miniature version of the CLI. II there is any output from the command a window will be opened on screen to fel you see the result.

Commands and the way in which they work tends to be where most people get stuck, so it s a subject we'll be caming back to @

NEXT MONTH

Mat returns next month, to unravel some more of the mysteries of Workbench, paying particular attention to the arcane mysteries of the CLI.



WBPettern lets you change the appearance of displayed, and the windows themselves. You terned backgrounds and windows. The number and range of colours available for your back ground ere specified in the Pelette and reenmode editors

loon text on the Workbench screen Later versions of Workbanch allow you to although lun, there are very tew images which



house tales. 4 Test godget Politer: y are you'll never need to alter any of the miscellaneous assortment of technical preferences that it contains. They include options to change the way that the screen is retreshed (redrawn) in productivity mode using a multi-

it is sometimes very useful to be able to sites (he hotkeys for screen filipping and requestor goerations, particularly when they would clesh with any hotkeys that you are using in an application.

If you select a drag key it is possible to move the Workbench window up and down without having to click on the drap ber at the top of the screen. Agein, you will find that this Is occasionally useful



Four programs affect the appearance of the screen, Palette lets you change the screen colours. Workdench 2 lets you use up to 16 colours on screen. The more you select, the more memory you'll nee



I'll come as no great supplies to learn that Forth allows you to specity the lent that should be used for all Workbench toxi output, renging tom the tablets beneath come, to the feet qued in menus and requesters. Pointer as the fast, are least significant, of this group of



Unless you're using a device attached to the senial port, such as a printer, modern or MIDI instrument, you won't need to touch the roon labelled Senial as this is for you to set the dela transmission rates and protocols.

rates and protocols.

If you do have any of these devices the controlling activities usually overndes any settings entirely entirely anyway, so it is not activity and trained here anyway, so it is not activity and training.



The Time editor lets you specify the system time and date. The ASSOL and above feature a bill-tery-backed clock which returns the time and date even when the power is ewitched only have to sell item once in precision there are many you should only have to sell item once in precision there are many ways that he bettery vacked clock can be unsel so you'll probably find yourself using this quite often.







Part Pet | Propini | Pic Feet | Pet | Pet

| March | Marc

portion counters. Princie allower you to assessible the Triber land you will be to sound the three that you will be taken to you will be to be the total or you will be the total or you will be the total or you will be to the total or you will be to the total or you may be to the total or you will be to your Welthamborn disk. If you you Welthamborn disk. If you you will be to a young you will be to the your Welthamborn disk. If you you will be to the your well be to the your well be to the your well be to the your will be to the your well be to the your will be to the your well be to the your

need to set the PonterGfx prefer-



By to Regal I

ound sampling is a growing business. If you went to capture your own sounds for use in masic programs, such as MED or to add sampled speech to your gemes, you'll need some way of digitising them. You don't have to worry about playing them back, as the Amige has a sample replay system built in as standard, but

digitising is another problem altogether Of conrse, you could buy a ready-made unit from a mail order company, but the more adven turous might like to try building your own. This will save yon money, teach you a thing or two about micro-electronics, and it might even be fun.

HOW IT WORKS

in order for the Amige to capture a sound it must be converted from its usual ens-

logue state into on 8-bit digital form This process isn't nearly as pernful as you might expect it to be, as e special Analgone to Digital IC is evalable quite cheeply to do ell the

If you take a look of the orcurt diagram on the right, you can see the digital output from pins I1 to 18 of the A/D IC These outputs are in a form which the Amige's parallel port is able to use directly, so there is no extra interface herdwere

needed. The various resistors, capacitors and diodes scattered around the carcust can be divided into three

categories 1 Those needed to process the

Input sound signal (C4,R5,R6). The capacitor fillers any DC components out of the AC input audio signal, and the two resistors cause the waveform to be equally balanced within

2 Those needed by the IC for general operation (B1,C1,C2) B1 end C1 are required to enable the IC to work properly. C2 is the capacitor which nines the rate of which the sampling process takes place. This can be altered if desired 3. Those that are needed to produce the negative

voltage required by the IC for the sampling proonsa (R2, R3, C3, D1, D2) The IC requires e 5 volt snoply in order to operate but the Amige's parallel port only supplies +5 volts. These compo-

THINGS TO COME...

In the not toe distant future we'll be koking at how we can expand the sampler described here to work as stereo, with array maramal afterations. We'll also be looking at how the sampler can be adopted to interface with a whole hast of other ordines from light meters to electronic weighing scales Don't touch that dial

TO PHRALLEL PORT SAMPLER PROJECT RIBBON CABLE COPPER SIDE DOWN AUDIO INPUT -CROUND N GND-

Above It using the suggested method of soldering the o

17 .52 14 (78

Here's the circuit diagram for the sample. The important per are the A/D chip (the 24440), the link to the paratial pert and

produce onises of -5 volts rust when the chip

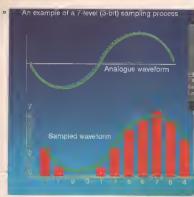
Operation is controlled by a signal from the Amige connected to pin 4 of IC1. When this is received, the sumpling process begins and the date is passed to the digital outputs. With the ZN448 on 8-bit sample can be made every nine micro-seconds with an accuracy of 1/2 LSB (Least

Significant Bil). For higher quality samples a ZN447 can be used (producing samples with an accuracy of 1/4 LSB, and to save money a budget ZN449 conld be used (1 LSB) It's open to question whether the chips will produce samples which sound different all I can say is that one budget eampler I have seen uses a ZN449, and I used a ZN448. My sum

pler sounded better

nents form what is known as a 'diode pnmp', and

ayers. It you wish to use the audio out Thoria



Above, in this diagram on prelogue waveform has been sempled and converted lets a 3-bit number (from 0 to 7). Our sempler works to a shriller way, but so it is secured to 5 bits, 206 different levels on allowed.

TABLE OF PARTS (C) 274448 x/U (or 204496 or 204476 - see bust) 12 477 14,15 158 (2) 7.6

ill-pin it Socket Billion mide (14 way) Audio sucket (depending on your system, typically 3.25mm (act socket) 25-way male play and coing (see board 100 ways to 40 Cultural

Solver connecting wire
Typical cost: £10-20 depending on choice of A/D chip and

WHAT DO YOU THINK?

Could you follow this arrive? When the text and diagrams does amongh, or fair too skripe? Whold you be inherested in buying a ready made hirted Grant Born in singilly reasonable. On a complete list of parts? Or even a ready-built somple? And it we may a project on building or 16 bit samples and object would you be inherested? Whold albit parts and some of the samples and object would you be inherested? Whold albit matched not be you want to see? White to DIY of the usual address with your commence.

CONSTRUCTION

multimeter it possible.

Preparing the veroboard is the first step on thelong road towards custom hardware creation. You can cut it to size if necessary, using a junior hacksaw or a craft fulfe. Try to reset the temptation of snepping the board, as it has a tendency to break

Veroboard consists of a heat-resistant insulating board covered in copper strips. Components are placed on the non-strip side, their legs pushed through the holes and soldered to the copper strips. You'll need a board with exactly 28 strips by about 21 holes. If you keep to these dimensions, the diagrams will make more sense and the

expension circuits will also fit on the board directly. Nine holes must be made in the coppet tracks as shown in the diagram on page 160. These holes should be located undermest the IC, and must break the tracks locally, with no swarf bridging the gap between tracks. Check with

Now the components can be placed on the board and soldered. Start with the IC scoket, as this will help you to position the other components. Solder the resistors, capacitions and diodes into place mothing the onentiation of capacitors C1,C4 and the diodes D1,D2. The diodes are heat sample, so so the supplies of the five, so be as quirk as you can when soldering.

Them. A linck is to ettach a crocodille ellp to the diodo's legit oe dis as heel slink. Be careful with the resistons, as the colour codes for 4K7 end 47K, will be very similar. Solder the wire links in place (all nine of them) and wire up the ribbon gable if you use 14 way.

and were up the ribbon cable. If you use 14 way ribbon cable, the remaining wees will come in useful leter on. In the meanthrie, we need +5 volts, ground, eight date lines and one control line. They are connected to the 25-way parallel plug as Belear: Here like sampling program Austrian d is being used to grab a semple. The oscilloscope mode shines whether the setome is too feer or ten back.

THE RESERVE OF THE PARTY OF

matter flow Section Section, palents
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ALTERATIONS

we there have been proved from the company for below the MISS or want the role of any other drop proceed stems such drop and the control of t

I can guarantee that by orienting R4, R5 and C2 year will about results which will be a fee better than most budget samplers cooling up ha S50, so not only will you save money, but you'll sound better tool

shown in the diagram. If you look very closely at the plug, you'd see try numbers beade the plus Match them with the diagram and solder than in place. Try to use as short a length of cable as possible – 30 centimetres seems to be a good length, but even shorter would be better.

LAST BUT NOT LEAST

Finally the audio upput wires and connector need to be soldered by The type of connector that you choose will depend on your specific needs. Again, keep the wires as short as possible — if they remore than a few centimeters long, you dis wise to use screened cable to out down on interference and attenueton.

Check all the winnig and place the IC in the social Try not to touch the pixs of the IC, and don'd for the three wearing rubber solute on a rylon carpet or the state will zon it. The IC with have a notical out of one end, and peasibly a dial too. The dolt indicates pin number 1. Check the notch with the degram.

NEXT MONTH

As own med accentist will be looking at ways expand this maint's project. You might think fout a sound sampler, but as you'll find out it in facts were versable framedoen interface at liber's what he half are accessed.





This month, Dave Smithson gets you

started on our very own AMOS version of the one and only PacMen. To get the show on the road he tekes a look at screens, Icons end maps.

00660

flast month's clutch of programming tips hasn't already blown a fuse, then you re probably ready and willing to get started in the lascinating world of AMOS games programming

The game that we'll be attempting to write over the next law months is none othai than that housewive's favounte PacMan OK, it can hardly be describas leading edge oluff, but as we said last month, it's always best to start with something simple - and let's lace it there's nothing simple: than Packers

So where do we stert? Well, the Ilrat. thing that you should do is to switch off your Amios, pop the kettle on, and settle into your lavourile armchalr with pen and paper in hand

Most of you are probably rering to get something to appear on your acreen, but il's vitally important to plan e game (end indeed any programming project) before you start committing yourself to code. II you just at down and bash oul gode off The top of your head. I can guarantee that you il create more problems than you could ever Imagine

STARTING POINTS

Start by thinking about averything that's Involved in your game. The best way to go about this is to think of it in terms of the main game loop that we discussed last IVES: 4

month

case of PacMan. we know that we need a routine to handle the diswing all the game screen, another to handle the pleyer's control of PecMan around thal screen and another to stop cui lavouma arcade churacter from walking through walls (even the phosts that chase him won! be allowed (autil ob ol Straight away you should have



realised that simply holding the game scraen in a memory bank as an IFF picture is going to craste problems. The amount of memory that such a screen Takas up is a minor consideration - 30K is hardly going to cause us major problams - but how do we keep track of PacMan's movement around the maze? We could use collision detection between the PacMan sprite and the backpround, but it would be simpler to

just use a geme map. Not only does this

save valuable marnory (the game screen can be generated using this map data), but we also have a wey of confining both PacMan and the ghost's movements around the maze. First, though, let's take a look at the code that sets up the game map

THE NUMBERS GAME

As you can see from the code above (Table 1), the map data is held in memory as a two-dimensional array that is 19x13 'erray eigments' in size. Because sech eiement represents a single block on the screen, we have to carefully calculate how many of these blocks we will be able to squeeze onto the screen

Because we'll be using a 320x256 screen and auch block will be 16x16 pixels in size, some simple methamatics are all that is needed to calculate that we can squeeze a maximum of 20 blocks across the screen and 16 down. Wa don't need all of these blocks for stariers, the game map within

PacMan games is never an even number of blocks down and across, so we can start by knocking one off the horizontal, leaving us with 19 blocks across. On top of that, we need some space to put the status ber m (the ber that holds the player's soore and lives etc), so we can also lose three blocks from the vertical

MOVING ON

Now that we know how large our geme map must be, the next slep is to fill the map erray with the numbers that will define which blocks are wells and which are floors.

The easiest way to do this is to tie the numbers that you use to designate the scenery type in with the loan bank that we'll use to store the block mage data (or 'cons', as AMOS calls them), in this particular case let's use a "1" for a lotally blank floor, a '2' for the walls is '3' for the normal floors and '4' for floors with power-ups.

Using this key information you should be able to decode the game map yourself to produce a familier PacMan-like maze However, if you would prefer to create your own, feel free to change the date yoursell.

Flash Off : . Off : Cls 0

Paste Icon ICONX, ICONY, MAPDATA (A.B) Add TOOMX, 16

Jareen Show 0

Next we need some code that will draw the game screen using this data. Before we go any further, we'll need to load up the AMOS Object Editor and draw some loon blocks that the screen drawing routine can use. For more information on this, check cut the box on page 166. Once you've created a bank of loons, load them into AMOS using the Load bankriame abk' command and you're ready to rook Table 2 (above) shows the screen drawing routine

JARGON BUSTERS · ICON - In AMOS I szms, on Icon is a recisnesiar arestito

using a minimal empury at mamory. @ SPRITE - Throughout those stilling, we'll be becombine

generic term to describe both bitter colects and real hardware parities. Wherever necessary, e distinction will

@ 909 - Ehen ier Sitter Offect Sale ere graghte objects that use be regred around the screen only even orimsted objects ore not restricted by else or the number of colours



Very Pttle spale is required to not the acreen dreating routine up and nomine

CUT 'N' PASTE

If you study the code in Table 2 carefully, you'll see that it's actually a very simple routine indeed it starts by opening a 16-. colour screen that will be used to hold the game map display. Note that the yer tical erze of the screen is restricted to lust 224 pixels - we could have opened it to e full 256 pixels, but there's little point as the statue display would obscure the

extre lines. We can save ourselves e few kilobytes by knocking the extre lew lines off the bottom of the screen Next, the code turns off AMOS's eutomatic colour cycling facility (ennoying at the best of times() The text cursor is switched off and the

set the screen to the same palette as our toons by grabbing the icon bank's palette using the Gaf Ioan Pelette command. The screen is then post baned using Screen Display so that we can open a small screen at the lop of the displey that will eventually hold the pleyer's score and lives ato

Now we can slart drawing the screen using the defe held in the mapdata() erray that we defined earlier Two loops are used to handle the task of drawing the icon blocks onto screen. The first controis how many lines of blocks are drawn (in this case, 13) and embedded into this loop is a second loop that controls how many blocks are drawn ecross the screen (19). The routine uses the two loop counters 'A' and B' to interrogate the data held within the mapdeted arrey. So, if A equalled '2' and B equalled '3', the screen drawing routine >>



Designing a set of background icons ign't just a matter of banging out some pretty pictures in Offset or the AMOS firing you must establish is how many colours each game. blocks and which colours are to be used

Although it is generally true that the more colours you unnecessarily will not only look messy, but it will also slow your game down. Don't forget that the more colours you ise, the more backings the Arraga's poor old bitter has to shift ground when redrowing any blitter objects (the PocMan and ghost sprites, for example). Our PacMan game doesn't really need a lat of colours, so I've restricted the display to just \$6. We could have got away with eight, but it would now looked rather dail

Next, we need to deade how many of these 16 colours are actually available for the background icons. Don't forget that we'll also need some relours for the officer objects, so we need to corefully calculate what colours should be assigned to our irons, sprites etc.

Because both our sprites and our roons will share the came colour palette, it's worth defining a "global" polette that holds the colours of all our sortes and icons ut one blocks before we design our spirites, so we'll make the icons colour polette our global palette (hence the Get Ican Palette command in the screen drawing routine). Once this is decided, draw your blocks in 16-colour mode, remembering to use the some colour palette when you come to design your spectus. If you're using OPoint to design your letter, they

>> would read the value held in mapdata(2,3) which, using the data we created above, would give e value of '2' (don't lorget that the first element within an erray is 0 and not 10

Note the use of the ICONX and ICONY verables. These have nothing whelseever to do with Shell commands - they're actually used to keep track of the screen co-ordinates where each new Icon block should be positioned on the somen. Both ere initially set to e value of 8 and as the two loops progress, a value of 16 is added to them to offset the position at which the Paste Icon command pastes down our icon blocks. A value of 16 is used because this is the size of our icon blocks If we were to use a value that was greater or less

Packism acres

- Wall Icon
- Normal Floor Icon 'Power Up' Icon
 - Clear Floor

** CROP AREA **



than 15, the icon blocks would either overlap or spaces would appear between It

It's worth noting the use of the Screen Hide and Screen Show opmmands. Those aren't really neoessary, but they are worthwhite and give the finished product a bit of polish, Because the screen must be drawn a block at a time, displaying

the entire game screen is eligibly slower than sa ply unpacking a picture stored in an AMOS memory bank it also looks rather unorples sional for the game screen to appear block by block in front of the user's eyes - we're not programming for the Spectrum after all. We therefore use the Screen Hide commend to blank the screen until the game screen has been drawn. Finally, once the redrawn, the routine sets no the donble buffering system required for flicker free enimation and turns off AMOS's

curselves within the

main game looo).

SPRITELY CHARACTER

We now have a rontine that stores the map date in a compressed lornal and then draws that data onto the screen using icon blocks. If you wanted, you could add a routine to your game that allowed additional screens to be loaded from disk. All you would have to do is to store the map data on disk In the same formet as the data statements printed above and then read them into the map date () array. This method of storing geme maps even lends itself well to game designers, giving the

pisyer the option to create their own screens. Maps can contain all sorts of data, including bonus information, extra life awards and so on it is very rare for any maze game or shoot 'em no to be

made without a map If you find the thought of all the calculation for handling the blocks a little too much you can always get hold of the TOME extension system. reviewed in CU's Jenuary Issue. It takes some of the fun out of designing your own pames though, end it is still useful to get you used to thinking of

the game screen as a gnd of blocks (60)

ext month will be histing our first stage with the extual orbanics of the game by skelling of freshen sprits onto the two and allowing the player it improve him occurred the zero using the joyatisk, In the exception, see if you do to the first port of the game using the code that has been mind this month.



All scelling colours before you commit yourselt will make the Isak of deelgring sprites and loose ocneiderably less troublecome



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If your Amiga's giving you iip, don't toast its innards with a flame thrower. Merely put your computing problems to Mat Broomfield who'll seek to wipe your fevered brow.

I BEFORE EEE EXCEPT AFTER C l own an A600 and a



Commodere 8023P printer apparently sporting an IEEE connection Is there any way of connecting it to my computer? It's a manly brute fust like ms then - Dan) and builf to lest, so

l'd like to hook it up I'm an alectronics hobbyist with C&G qualificatione so constructing an Interface would not be a problem if I knew where to get a circuit diagram J. Revell, Maldon, Essex

Until your latter, I'd never even heard of IEEE connections, but after a bil of research, I've discovered that the abbreviation refers to the Institute of Electrical and Electronic Engineers, and is aynonymous with a special way of connecting printers se direct output devices to acientific and measuring instruments, etc.

Depending on the exect specification num ber of the Interface, you may find that it is compelible with a standard Centronics port. but I don't have pin sesignments. Unless a knowledgesbie reader knows differently. I suspect that you're not going to be able to use your printer with the Amigs.

MORE MEMORY



I decided to buy an Amigs eiter reading your magazine, but hav-Ing bought it can you tell me if it's worth adding more than 1Mb mamory to it? I only use it to play games, demos and music with samples. if I litted 4Mb to the Amige, would it still be

compatible with all disks? Am all RAM expansions above 1Mb fast RAM? Considering what I use It for, is it wurth upgrad-ing from a Kickstart 1.3 to a 2.04 sat-up? Abdul-Aziz Jaber, Rtysch, Saudi Arebia

As games become incressingly sophisticated. they make better use of systlebia memory, and the amount of memory that they require is slowly increasing. There are already a few games that need more than 1Mb to run fully, and you can expect this situation to become increasingly common in the future. Therefore, whilet it's not assential for you to add more

then half a meg, you will probably benefit. There are rumoured to be a few programa that don't like I go much memory, but I've never enceentered any of them. In any case, additional RAM can usually be switched off using sither software or a physical switch on the

expansion board. A 2,04 Amigs will give you 1Mb of chip RAM which can somatimes be useful for sound and graphica purposes. Other Ihan Ihat, you're ben ler off sticking with a 1,3 mechine which to capable of loading virtually all Amiga games, unlika ita nawer gousin.

DODGY DATABASE



I run e small company and I need a program which will give me the facility to enter and store me the facility to enter and a large amounts of publishing a Information, which then needs * to be sorted into alphabetical perior and printed

I inhersted a copy of Prownte with the computer and, having loaded it. I preceeded to type in the information I needed line by line. When I came to orm the details to a list suitable for mailing, only one page printed and a picture of a disk and a ags subsequently appeared Under the Ram Disk and Workbench saying DF0 NDOS. is it possible that the disk is laulty, or does if just need some minor adjustment?

in a luriher strempt to get my lists printed I bought a PD disk called Amibase but, although it ponts lists, they are five or six lines long in each field and are therefore useless for my purposes E.M.Fowier, Whitchurch, Cardiff

Prowrite to a word processor and although you cen use it to print tiets of information in the way that you're doing, it's primarily designed for writing letters, essays, reports and so on. When you need to create alphabetical lists of Information, a database is simpai carisinly a more appropriate program because it enables you to aller the way in which the information is stored much more seally. Lat's suppose that you want your lists arranged in reverse order. With a word processor this is a tire some task requiring you to change every single item individually. Using a database, a single command in all it taken. As for your printing problems, I must edmit

to being a little beffled. In the tirst piece, you are describing two distinctly different prolems. The fact that a disk and the words DF0:NDOS appear indicates that you've recently inserted a disk in the internal drive which doesn't conform to AmigaDOS (DOS=Disk Operating System) specifications There are numerous reasons why this could be so: perhaps the disk is new and hasn't been formatted yel, or maybe it contains a commercial program (such as a game). Alternatively, it may have at one sings been an AmigaDOS disk, ber has now become damaged. In any case, the tect that you've managed to print one page of information makes it clear that Prowrite already has all the lifes it needs regardless of the status of the disk in DF0:.. Perhaps your printer preferences are sel wrongly. Are you sure that the number of lines (page length) is appropriate for the size of the peper you're using?

Anyway, I Ihink Ihai you'll discover Ihai Blase 2 will be more suitable for your require ments. You can gel it from any PD company for a couple of counds - check out the ade in this leaus of CU Amigs.

MODEM MANIA I write in the hope that you will



share your modern knowledge with me I would love a modern to linker with, but I need to know the running costs so I can persuade my parents to buy ons I'll probably have to pay my own phone charges and as my pocket money isn'll

how much line time that gives me. Since I live in Southern Ireland and there are no bulletin boards in this area to my knowledge, I suppose I'd have to contact British boards. Do I have to pay extra as a foreign user?

Mark Basquille, Castlebar, County Mayo

Once you've boanh! The modern, you can run it for no more than the cost of your phone bille it you're selective about the services you access. There is a globel network of free bulletin boards known as Fidonal which has more than 19,000 nodes (Individual boards). Although there may not be a node in your home lown, there's simost certainly one close to you.

Ot course, if you want access to a wider ranga of services or conferencing facilities, you may need to join a subscription board such as CIX or Compulink. These usually start at a couple of pounds per hour and go up in ccal. As these boards are nothing to do with the telephone compenies, I helr charges are in

addition to your phone bill. A 1 200 MONITOR



As soon as I heard about the A1200's 256 colours, I triided in my A600 and bought one What n I want to know is, would a * Philips GM8833 Mk2 or a Commodore 1084 be able to duoisy all 256 colours?

At the moment I'm using a Toshiba TV with a Scart RGB input and the picture is good. Would either of the monitors that I mentioned be better than my current sel-up? I poly use the A1200 for games, and I havan't

had any problems loading them so far P.J. Cawser, Birminghem

Either of the monliore you mentioned can display the A1200's 256-colour display; I hey've been coping with the A500's 4096 colour HAM mode for years I in fact, they can cope with full 24-bit output. As you only use the computer for games, these monitors will greatly improve the clarity and colour dalinition of your display. I preter the Commodore 1084 as i tind I hal the Phillos tends to have some minor colour focus problems which can cause tiny but noticeable 'shadows' around areas of gmel contrast.

RUN BEFORE YOU WALK I have an A500+ with no addi-



tional memory and I'm considering buying a 32-bit accelerator I'd like to know If I can still run 500+ games, and also il I oguld run A1200 games Staven Watts, Carditi, Wales

Most games will run even with an accelerator. For those that don't, the accelerator can always be switched off. Howavar, the fact that the A1200 features a 68020 accelerator as slendard is just the tip of the icaberg. There are far more differences between the two machines than that, and there's absolutely no chance at all that 1200-specific cames will work on your 500+ Just because you've litted an accelerator.

An accelerator witl anhance your computer gmetly it you use it for more than just games, but it that's all you use it for, I would suggest that you'll get fer more benefit from extra memory, or perhaps aven a cheep hard drive it you play a lot of strategy games.

SETMAP SUFFERING



Selmap commands without any joy. I already have a command to display my pictures but I guid like to have a few optic from there on, i.e., to load different utilities, etc. How do you make a keymap? What drawer do you put it in? How do you execute the setmap

command for your keymap? Metthew Morgan, Nasth, South Wales

It sounds as if you're irying to put together a complletion disk containing a title or menu screen which is displayed as an IFF scman, and a selection of options which can be executed with simple keypresses.

To do this successfully there are a number of stages which you have to go through. First you need to work out what programs you want on your compiletion disk and put them onto your freshly formatted (and installed) disk. Test that they all load by typing the appropriate launch commands from CLi. Most of the tims this will simply mean typing their name such as 'Powerpacker' or 'SID', but occasionally you'll need to give edditional parameters such se 'Modpleyer music.mod'.

When you're ours that the programs all work well and you know the appropriate faunch commands, you're ready to create a new keymap, I use a program called Setkey, but there ere other programs svallable in the Public Domain. The keymap that you dating will be the one that loads each of the individual programs when certain heye are present. Generally it's safe to define the F keys, but be careful that you tion't deflee a key that's used by one of the programs to be loaded A lemptation when defining a keymap is to

define one which specifically loads the progrems on your compliation, so that key F1, for Instance, produces the command "Powerpacker<return>" when pmased Although this works, it's far better it you define the keys so that they execute a script file on the disk. For example, key F1 can be redefined

so that it produces the following commend when pressed: 'Execute 1<return>'. You would than crects a text file (saved under the name 11) on the disk that contains the necessary Powerpacker loading commande.

There are two advantages to this: firstly the sams keymap can be used for unlimited nun bers of compilations - simply change the contents of file 1 - and secondly it's far easier to sitar a text file then it to to after a keymen. Whan you're happy with your keymen, save It with a unique neme. Avoid using the ne of existing keymaps; this can cause gmat contueion later. The keymap singuid be placed in the Deve/Keymapa directory of your compile-

To activate your keymap, all you need to do is type the command 'Selmap mymap', replacing the name of your redefined keymap where I've written 'mymap'.

WHAT USE SCANNERS? I've just read your very interest-



ing review of the Datascan Pro 3 01 In the January issue, I know nothing about scanners except that they scan pictures. Tharefore I d like to know if it's possible to load a Datascanned image into Deluxe Point 4 so that I can colour

S. May, Southend, Essex

Yes, you can load ecanned images into your favourite ert packege. If you save a scan as grey scale, then it will be stored as an IFF somen in one of the standard screen sizes, it you subsequently decide to recolour it, you cen elmply substitute your chosen colours for the 16 shedes of grey on the screen.

If you save a scan se a monochroma (black and white) bitmap, it's likely to be considerably larger than a standard Amiga acreen (espe cially it you took the scan at oas of the highest resolutions of 300-400 dots per inch). These scans can still be loaded into DPaint, but you may find that you run out of memory, espe ciefly it you change the acreen format to one with fota of colours (16 or 32).

A1200 INCOMPATIBILITY? I was looking through the DIY



teature in your September issue and I was wondering if I could use the pause switch as a slow motion device on my A1200? I'm hoping that I could use it to make the processor speed the same as the A500 s, thereby making it comperiole with games that don't currently work

isn Mecdonaid, Eestlield, Cumbernauld I'm afraid that alowing the processor down in this way is not enough to make the two machines compatible. In sev case, the DIY pause switch that you're referring to plugs thio the expension stot at the side of the A500. The 1200 doesn't have such a slot so the switch

would be ussless to you. There is one aimple way that you can make the machies competible with a lot of eaftware: If you hold down both mouse buttons when you turn your computer on, a screen of options will appear. Saleci 'Advenced Options' then select 'Cache Off'. Apparently this can make a big difference when trying to load previously incompatible softwere.

MUSIC X INCOMPATIBILITY I bought Music X when I owned e 1,3 Amigs and il always



worked periectly, but now the live got on A500+ it doesn't a seem to work, is there any way that I can get it to work, or must I want for the new varsion? Paul Pollett, Sheffield

There is a tairly aimpis solution to your problem, and it comes to you from Craig and Mark et Gordon Herwood Computers. Using a copy of your main program disk, load it until the Workbench screen appears. Open the Music X window and click once on the Music X loon, then go to the Workbench menu et the top of the screen and salect into. This will call up the Information requester. Click on the ADD button at the right of the tool types box. This will place a cursor in the box ready for you to type so enler BUFFER=200K then prese return. Now ell that remeine is to click SAVE and load the program se usual; it will now work on your 500+l Of course, you'll have to use this saw program disk to boot from in future, but you don't have to go through all this messing about each time. From now on, just tood the program in the normal way.

CANON PRINT MANAGER Could you please lell me where



I can get a print manager for my Canon BJ10ex? Is there one which is compatible with Pagestream? At the moment when I use Pagestream 2.21 can only use my printer at 360x180 doi, rather than its muximum of 360x360. ian Beattle, East Molessy, Surrey

I'm not quite eure what you mean when you refer to a 'print manager'. There is a free printer driver aveileble directly from Canon. Write to them at Canon House, Manor Road, Wellington, Surrey, SM6 0AJ, Tal: 881 773 3173. The driver should work with all versions of Pagesimem to give you the maximum notutional lab 035 votes

For printing IFF acreens (including 24-bit images and imagine tiles) there is an excellent program called Canon Studio, it costs £15.00 and it's distributed in the UK by JAM, 75 Gmatfielda Driva, Uxbridga, Middlesax, UBB 3QN, Tel: 0895 274449. You can find a com plets review of this gmat program in the December issue of CU.

UPGRADE OR BE DAMNED!



I want to know if I should get rid of my A500 and buy a better Arriga such as the 3000, or - should I simply expand my existing machine? (m using my Arriga for garnes, WP and other professional applications

To enswer your question I maily need to know why you're considering changing your current sel-up. If you simply need to add a bit of memory or en extra drive, then of course you should elick with your current kit. However, it It looks as if you're going to constantly expand your set-up, edding hard drives, megabytes of memory, accelerators and so on, then it's probably safer to start off with a better machine in the first place.

Cossidering the recent launch of the 68030 A4000 at under a thousand pounds, it certainly looks like a very tempting proposition. The gmel edvantage to such a machine (apert from the anhanced graphics) is that it allows you to edd future expensions such as hard drives internative and for a cheaper price than their A500 external counterparts.

Additionally, there are many expansions available for 'big bex' machines such as the A3000 and 4000 that are simply not available on the A500.

ROUTE PLANNER I need a good powerful route



planner and I've beard of GR Route, but that's too expensive for ree. I'm looking for a PD program (which I realise is unlikely), or e program for about

£20 to £30. Live in Budby but none of my friends' muse

planners (they own PCs) cover this town so I need something I can add things to. M. Al Moderie, Rugby

Sorry, but it's GB Route or nothing! It you'd purchased the June 1992 edition of CU Amiga. you would have received II for free, However, as you obviously didn't get that issue, you'll just have to buy GB Route Plus, I agree that at £49.95 it sounds expensive, but it's at least half the price of comperable products on other computers, AND It knows where Rugby tall

You can buy GB Route Plus from Complex Compulers, 2 The Arcede, Waterloot Roseendele, Lancachire, BB4 9AF, Tel: 0706 224531. Of course, you could always use a map and a bit of string to work out your routs!

AUTOMATIC ANIMS



I own Deluce Paint III and I went to make my own demo disks which automatically pley on enimation when the disk boots up Can I use DPenf to help or will I have to learn Basio? Darren Whilehead, Lence

No you don't have to learn Basic (not that that would help enyway!). Obviously you must use DPaint to creats and save the animations in the first place, but once you've done that you'll probably find it easier to use a dedicated enmation player such as PPAnim or RTAP (Besi-time Animation Player), both of which are available in the public domain.

RTAP lets you specify the replay rate of your enimations and can even play them straight off disk. You'll tind if on disk nember 517 evallable from PD Soft, 1 Bryant Avenue Southend-on-See, Essex, SS1 2YD. Tel: 0702 466933

PPAnim is particularly useful because you can use Powerpacker to compress your anime tions (to get more of them onto a disk) then PPAnim will replay these compressed files.

It you buy the tull commercial version of the progrem, you'll also receive PPAnim, PPMore and PPType (for replaying compressed lax) files) and PPShow (for displaying compressed screens). You'll also find that the program compresses liles far more efficiently then the PD version.

You can buy your copy for £14.95 from Database Direct, Freepost, Elisamare Port, outh Wirrel, L65 3ES. Tel: 051 357 2961.

FLASHY CAPS LOCK va mad several letters in CIII. Amina from people whose Capa



under warranty. They checked it switched off end on again in less than 10 seconds there is nothing wrong with it. I doubt this because from the letters I've read, I gather my mechine has e faulty keyboard processor chip. The Johi fleshes

continuously at about 38 times a minute is my A500+ faulty or not? Jamie Patere, Costville, Leicestershire

I suspect that your computer is line. Because of the construction of the Amige's RAM chips, the Information in them is not completely desiroyed the instant you turn the power off. It you turn the power back on within a short time. the residual information in the chips is usually Incomplete. When the computer tries to acl upon that information, it gets 'confused' by the damaged data and creekes, fleshing the Cape Lock light se it goes.

To avoid this turn the computer off for longer than 10 seconds. This will also destroy any viruses that may be in its memory, so there's a double benefit to following this simple procedure.

WHICH RAM EXPANSION?



I d like to start by saying that I know absolutely nothing about computers However, my son has an Amige 500 and all the games he now wants seem to require 1Mb of RAM +m told that the A500 only comes with half a magabyte so he wants to upgrade to 1Mb

Looking through the pages of your magazine, there are so many different products to achieve thie, but I find it all very confusing Can you advise on which product is the simplest to install and cheapest to buy?

Arthur Rice, Drumeness, Co Down The various half meg expension boards are all equally easy to Install so they plug into the same slot in the seree way. Although there can be alight quality differences between the construction and rew components of the different

units, these don't reaks a big snough differ . ence to influence your buying decision. Therefore, the only real difference between the unbe is whether or not they include a bettery-Such a clock can be useful in identitying the

creation time and date of liles if the computer is being used for enything other than games. bul alherwise It's not worth considering. A clock will add £5 to £10 to the price of your AM

I have no particular recommendations - just look for the cheepest price you can find. I've seen units for under £25 without a clock.

COLOUR PRINTER



My writing isn't brillient so ! am looking for a printer for school work. Can you advise me which · printer would be most suitable? I also want to be able to use it for calour work Grehem Dawson, Stirting

There are a couple of 24-pin colour printers that are currently proving very popular, namely the Star LC-200 colour end the Citizen Swiff-24. Both coal in the region of £300. If your budget won't quite stretch to these, Ster have just released a new nine-pin printer for about £150 called the LC-100.

It you have a bit more money to spend, the Hewlett Packard Daskjel 500C usse bubble jet technology and although it has an RRP ot approximalaly £700, the results are considerably batter then those of the dot metrix printers mantlened above.

FRETFUL FONTS I'm keen to Isam more about



desktop publishing I'll be looking to produce posters and the occasional megazina/fanzine However, I'm unsure about the

renge of tonts evailable What's the difference between bitmap and etructured fonts? Which are buffer and how do I obtain these lonts? Micheel Ramsay, Forter As you've correctly identified, there are two

basic types of fonts: bitmapped and struc tured. The charecters of a bitmapped lont are defined pixel by pixel. For exemple, a caphel letter 'T' may be defined se lour pixels in a vertical line with a row of three horizontal pixels on top at them. You resy think of this definition as a 'map' to the shaps of the characles

However, this map only refers to the latter at a particular eize; treble like size of the font and you either need exponentially more pixels to describe the same character accurately, or you simply use the evallable number of pixels to approximate the character's shape, thus lowering its quality.

There are two types of bitmapped lonts available: ordinery monochrome ones, and colour lonts which are usually more slaborate. and in multi-cofour. The monochrome fonts are often to be found on PD disks, and can be used In many word processing, graphics and DTP packages. Colour tonis, on the other hand, are rarely (it ever) found in the public domain, and even commercial ones are taw and far between. They require special software considerations to use them, and virtually no packages support them.

A structured fant to represented in the computer in an entirely different way, instead of ueing pixel maps, characters are represented by ecaleless malhematical definitions. Therefore, our letter 'T' is now described as a series of lines, angles and trajectories which define avery part of the letter reletive to every other part. This method is very memory intersive when dealing with small font sizes, but the larger the font, the more economical structured typelsons become as they still only require the same amount of memory regardless of their size. Furthermore, because they're defined mathematicstly, they don't suffer any quality roblems when their scale is channed

There are a number of different types of structured tents evallable. Workburch and packages such as DPaint and Wordworth use intellitonts, whilet Professional Page uses Amiga Agris Compugraphic fonts. Its biggest rival. Pagestream, uses Adobe typetaces Thanks to the lost manager supplied from

with Pro Page, Adobe typetages can be converted info Compugrephic ones. Similarly, the Fountain program aupplied with Workbench 2 and above can be used to convert Amige and standard Compugraphics into Intellillents. Unfortunately, only commercial softwere can convert either of the latter back into Adobe typefaces. There are literally hundreds evellable from Public domain libraries.

ANY PROBLEMS?

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ACCESSORIES

Normally a calm and placid man, some strange demon seems to take over our deputy editor when he answers our readers' letters. So, here's Jonny...

NAME CHANGE

then I was looking through the March '93 issue of your mag I was surprised to see my name (or most of it) on one of the acreenshots in the Bard's Tale Construction Sel review Even though i wasn'i Interested in the game, I always read e

review just to know what your opinion of it is. In the review there ere two pictures of the main screen and down at the bottom where the characles names ens. characters loss and five have the names 'Peni and 'Eltan' respectively - most of my name! Now this leaks too much of a colnoidence as the name Eitan isn't common, just check a phone directory. The never seen anyone else's name with an 'e' instead of an 'o'.

My Ded, who need to live in Malte, had the sniname of Tanb. When he moved to England he changed his name to a more English-sounding surname. He added the first letters of his sumame. before placing en 'e' on the front. He then took part of his mother's name end made Eltan double barrelled. He said that he has checked to see if there are any other Eltans about and there weren't any. Il seems reelly weird for the reviewer. Tony GIII, to have two characters from the Bard's Tale with my name!

Right, with that out of the way I was wondering if you know whether there will be an Action Replay cartridge for the A1200? I want a better computer but I don't went to lose this trusty piece of herdware. Even though the current cartridge won't work on a 32 bit mechine I feel it was stupid of Commodore to abandon the expansion port. Look

at all that space on the left-hand side of the At 200. You could easily have placed the expanelon port where the PCMCIA slot is end then have the PCMCIA stal where the disk drive is - only on

the opposite side In my opinion Commodore have stepped right in it since last year. It made me sick to read about e spokesman saying that the A500 was yesterday's machine when the A600 appeared. Then the A1200 appeared, which seemed to be the computer that I and many others were waiting for. But I had a lot of sympathy for all those people who had just bought an ABOO. People rushed out to buy the A1200 but found that it had a lot of essential com-

ponents missing. like the algrementioner expansion slot, e DSP, hard drive, etc. It's embarrassing to realise that the Atari Felcon is in reality e lot better, when we've all been stagging it off (Vio Lennard made me see this in your Points of View section, elso in the March insue)

Commodore are going to rectify the DSP problem, but yel agen this stabs even A1200 owners In the back, it seems that Commodors just can't wart to release new technology on the public before they get hold of new extree I don't want a PC or an Aferi or a console. I want on Amice with the potential of a good PC so you know you have the best, but Commodore have made loads of mistakes, which cause people to defect to the .. other side. Maybe Commodore should ask the public what they want, giving a sat of guidelines with a regnest to each mag for a questionnaire that readers could send in Are Commodore both-

ered about the public or are they just doing to take the money and run'? Paul Eltan-Shaw, Crowborough, East Sussex Eve spoken to Tony Gill about the names in like Berd's Tale and he says that I hose are I he

ones supplied with the geme. If I were you I'd put II down to coincidence. After all, I play a lot of edventure gemes end if I here le enyone out there called Thragg from Slendeer, I'd just like to essure him that I made the name up! As for the Action Replay cartridge. Datel say that the A1200 version is corrently at the development stage and will be aveilable soon.

INSIDE INFORMATION

It seems that top games publishers, Virgin, are rapidly expanding on all fronts. Not only have they taken on loads of new coders and design staff, they've also possible as a PR person Danielle Woodyatt from US Gold. They are currently working on masses of new garmes, most of which care topy search, As soon as they let their quard drup and spill the beans we Il get you more details on the upcoming products. On a slightly different note, they're just done a deal

with top record producers, Polygrom, to put the music from the Seas version of Meon-Lo-Monia anto a compilation aform, Apparently, the record will contain various dues to the game and the lirst person who manages to spot them will win a holiday to sunner climes.

TEAM TALK

There have been a few changes since last month. So to keep you up to date with what's happening at CU Towers, here's the latest libel column.

PANGERD-ARSE Now that Dan's got stuck into his

physical fitness kick, he's on somethe virtues of cold baths (vel again).



who got smoking banned at CU Towers, so we're all a bit worried that he'il persuade 'The Management Into forcing us to do serobics before we etart work in the marning. God lorbid, and we all look so grap in laotards as well Other than huffing and puffing his way to fitness (and still managing to be out of breeth when he's reached the lop of the stairs!), Dan's new Arrige hints'n tipe book should be in the shops as you read these very words. Anyone warring e. copy of this fine literary tome and outstanding games grade, ring BSB

TON BELIEVED

Jon's been given a new lease of lite with the aridition to the team of a Production Editor. No longer is he to be seen sleving over hot page



name of work! As his wedding rapidly approachas (it's on the 24th of May) he has become more and more domesticated - Which is certainly a step in the right direction as he's not even house Iralned yet. There's noth ing he likes more new then to slend around in the kitchen at work caremoaning about the other sods who never bother to. By the timo yon're reading this he is probably on his honeymoon sitting on a Caribbean beach drinking cocktails, lucky sod Wa'd just like to say that we hope he

HEATHER 'RULER'

Our new Ornel velors Editor has eat lainly taken to her job with relish. Not with a ruler when recalcitrant writers don I get their copy

In on time, but we think thei she's taken hai job description a little has decided to pro-

dice another creation - a little baby preggers she hasn't been seen doing eny of the usual pregnant women type things. Ilke going down to Mothercare in her lunch hour and getting all misty-eyed it's been aug Irealance team so that they send they stuff in on time. Knowing Heather as weldo, we reckon that the bulge that a starting to form nnder her inmper le more likely to be e concealed weepon then a new sprogle).

The points you make are valid, I know how those custoreers teel, so I bought on A500 merely weeks before we were told about the A1200. Now, I're locked in to a menhine that is repidly becoming out of date. But that's the price we pay for the merch of tenhnology. Of course. Commodore could have handled the transition better, as people normally have machines to: some time before upgrades are released. Not so in the Amige market, where mechines now seem to have a lifesoon maseured in months. Maybe Commodors are Loo technically excellent for their own good. Perhaps you should have taken Vin Lenn comments with a pinnh of sall so it seems ha has inflareed a few reeders...

IS VIC (ALL) THERE?

After reading Vic Leonard's colnions on the relative merits of the A1200 and the Falcon, I simply couldn't contain my frustration. Although he mad some valid points regarding the missing DSP Chip and SCSI ports in the A1200, the rest of his argument was simply misleading. The A1200 has a clock speed of just over 14MHz, the Falcon is hardly leaving it for dead at 16 16MHz. He also casually forgot to mention that the Falcon comes with only 1Mb of RAM, so't really multi-tasking, ran't as expendable as the A1200 and, most importantly, ren't as cheap. In an ideal world the A1200 could hava been a touch faster also have had a DSF Chip, but cost simply wouldn't have allowed that High density drives will be absolute when CD takes over as the new medium. I found Vic's comments destructive and rather childish to be honest - a case of 'my computer (that isn't even out yet) is better than yours' syndrome. If you must let editors from Inferior computer magazines have their say on the A1200 vs. Falcon debate, please ensure that they tell the whole truth regarding specifications, not simply sled a company and its customers off purely out of prejudice. Commodore have made mistakes, but they will be around in five to 10 years. Mr Lennard abo hie invisible Falcon probably won't. Pat McGrath, Luton

This is just one example of the many letters wa have received on this subject eince we

printed Vin's nomments. For the most succinct ringste ess the Letter of the Month from an enonymous Amige developer. Not all our meders, however, disagreed with the eantiments expressed by Vic. Teke I his one for example...

MUSIC COCK-UP

Having been a professional musician and seger Amiga user to: about six years now, I cannot help teeling frustrated about how the Amige is ignored and ridiculed in the senous music society

OK, so the Amige Modules format has become a standard even on PCs and Alen computers, and e lot at superb music has emerged from the thousande of underground musicians who use the Amica s tour chennels of 8-bit cignal sound to creale some really stunning music (considering the hardware Imitations).

But in the 'real world' of the serious music Industry, where musicians work with CD-quelty sound MIDI and synth equipment composing film scores, phyles and other professional quality sound end musin, the Amiga is as good as dead. It you tell someone in the industry that you are using an Amine for music production, chances are they will literally leugh at youl in my opinion, there is one company who is responsible for this Commodore. They are the sole reason for the disastrous status the Amigo has in the music

I recently received a now issue of Roland inside, a magazine exclusively almed at Roland users. On the letters page, a reader had written in and asked if the Arriga was OK for music and MIDI use. The magazine's editor replied that the Arrige was just a games machine and couldn't be used to produce music. Upon reading this, I nearly choked! Not only because it was written in what I had considered to be a well-informed magazine. but because this is obviously the general impres-

sion throughout the industry. Why?!! it was a major mistake of Commodore not to Include a MIDI port on the very first Amige model, the A1000. This interfece only cost a law measive pounds to Install! When Atan released the ST R came equipped with a bulit-in MIDI interface and was immediately seen as a computer with musical abilities' Sadly the Amiga wasn't

One should think That Commodore would have learnt from least installed a MIDI port on the A3000. Sadly, they didn't nother Installing e around either Heven't Commodore HEARD of the MIDI standard? Il makes you wonder. doesn'l rt?1

And now we have two more new models from Commodore, the \$1200 and \$4000 with some great new graphics textures and odot But heve commodore included a MIDI interface? chancel But surely they must have included a Digital Signats Pipoessor (DSP) Don't make me laugh This device



Knowing host II chould change the lives of conines everywhere, the dog scientists struggled diligently to understand the Doorknob Principle.

the new Amigas to carry out professional level sampling, but Commodors must have had their collective head in the sand yet again

The way I see it, Commodors have now chosen to innom the music field completely and pretend it doesn't exist. If you eren't Into digitising a million colours or playing footy same, then Commodore don! wan! to know

Well I for one have had enough. I'm going to buy e Falcon or maybe even an IBM clone Thanks for everything Commodere, but I m not going to hiring around waiting for you to get your act together

Bjorn A. Lynne, Oelo, Norwey

I LIKE MAT

am not a woman normally given to hyperbole, in fact, I am more likely to critoise the excessive use of superistives (especially in most computer magazines). However, I cannot find adjectives superlative enough to express my praise of your Q&A wreter.

Maj Broomfield He is wonderful, marvellous, excellent, solendid, magic, superb, need I go on? And before you ask - no, he s not paying me to

Seriously though, I really would like to expres my admiration and gratitude for the service he offers. We bought an Amige 1200 for our children at Christmes and although I have some experience with a PC (on which this letter was written). I telt a total ignoramus when it came to the Amiga and, presumably because the A1200 was so new, found it extremely difficult to get the Information needed from the odoka

So, I wrote to Mat I hinking I hat I might, it I was lucky, see on answer to the questions in three or four months' time. But he, registing that I needed answers more quickly then that, took the time out to ring me efter work. This really is service over and beyond anything I'd normally expect, but even that wasn't the end of it. May gave me his home phone number and when I had another urgent problem, he solved that for me in around five minutes

Compared with the trouble I've had trying to get information from the laughably and most inappropriabily named Commodors helpline (but that s another story), the service freely and cheerfully offered by Mat is incredible (to use yet another superlative). I could start rabbiting on about the

TONY MEDORGAN

to mose about the constant boomspewing out all day - these days we've gol to out up with a barrage of obscure German headbang

Ing techno from dawn till dusk. We

conclusion that he's actually hiding a pair of mating garblis in that comp of his but he is adament that it's music. He e even gone as far as sticking some self-composed tunes on his Amiga, then using its multitesking to hide MED under another acreen. He's been trying to claim that its a brand new soundliack for a new game - but fortunately we re all a lit-The only respite that we get is the sacred lunch hour, when he's too busy lucking into his daily kebeb and chips to even think about making any

K. ANSOMERE Unable to shake off the attention of

the law, our Nick's been in trouble

Irom e publin box Embankment he rounded by a

couple of menacing stopped and searched him, saying

that they were looking for a phone box vandel and he fitted the description Of course. Nick is innocent but him, roaming London When he asked the applicable cops what the perpetrator is tall and wears a leather Jacket Unfortunately for Nick fand about 200,000 other blokes in Loodon), he fitted the description per fectly. The police will be very busy II they have to search everyone who

LETTER OF THE MONTH

VIC'S A DI [Snip - Ed] piece which appeared in the March Issne of CU

Amiga, When I spend money on an Amiga mage zine, I do not expect to be patronised by someone who knows even less of the non-Amige

platform he to advocating than I do. Mr Lennerd begins by saying that the Felcon's specs are 'frightening' with respect to the A1200, which has an appating speciaheet. He liten goes on to single out those leatness of the Falcon that are not present in the A1200 Firstly there is varions leatures in Ateri e machine that are not than perfect fashion, I too could ask, where is the copper, where is the dual playfield graftx support, where is the HAM-8, where are the herdware sprites where is the industry standard PCMCIA

Mr Lennard claims that the industry has adopted the 68030 as the bare minimum for a computer of any real power. Which industry does does), or shere the CPU bas with the graphics bus (like the Falcon) or do not support the burst mode (like the Falcon). Atari have crippled the

Falcon's performance by using these shortcuts When Atari PR says that the Falcon is a 32-bit computer, what they actually mean is that it is e 16-bit dealon with a 32-bit CPU. This is the kind ples Apote's 68030-based Macs. The A1200 has

Next, we are patronsingly informed about the DSP Motorole's 56000 is an Integer only device with no bus mastering capability. Commodore e fall fleating point unit with both but mastering and its own pre-emplies male lasking, mate-processthe main CPU and have access to the same memory that the CPU does

In the Fatoxy Implementation, the CPU has to stop and fised data to the DSP, which does not have its own operating system, let alone a preemplive one Commodore are putting DSP support into the system softwere first, which is

where it belongs Similarly for the MIDI ports, Commodore now have the CAMD library for the Armga, which provides a clean high-level system thendly interface to all applications which require MIDI timing. This will allow multiple MIDI applications to multi task and share data at the same time. Even the Med mechine) cannot do that in rest time. Contrest this with Ateri's 'take over the machine approach to

We are told that the Falcon can emulate the PC and Mac platforms more easily than the A1200 Meybe Mr Lennard has not heard of EMPLANT it currently empletes a Mac in coloni (en A1200 PCMCIA version is in the works) and one of which is to be a Felcon emplation module You will be able to emutate a Mac, a 486 PC and related act of misconcepton. Mr Lonnard save that the Falcon has a dedicated internal bus expansion slot designed to accept a different proceasor. What he doesn't seem to know is that so

Furthermore, the A1200 local bus is a full 32bit slot (the Falcon has a 24-bit design), and also effows for a pass-through connector at the back. You can elso get at the slot without opening the mechine up and voiding your warranty (the

Falcon's is internal). Also oddly missing from his article is the fact were (unlike the Falcon). The video support is far snperior in the A1200 (256 24-bit colons registers,

each with its own genlock be). You can simultaneously and independently the At 200 - the Felcon lets you do only one or the other at a time. There is more - the Fetcon. blitter lacks the three-sonrce Input of the Amige blitter (it can only take two inputs at a time). Nor does it perform bits in perallel with the CPU over

dedicated Arrage channels Finally, may I suggest that in the best spirit of reciprocity the editor of CU Arriga be allowed a guest page in Atan ST Review to highlight the above-mentioned beleats in the Felcon's design's Atan magazines, we need to make a sincare effort to speak the truth for e change

An Amige developer, London

We attrred up a right homel's nest when we ren Vic's piece, didn't we?l. Obviously we agree that the A1200 is a superior machine in most respects and is much more likely to survive to breed a new generation. In tect, we've pnt together a datalled comparison of the two machines at the troot of the magazine this month and we hope that it will finally dispel tures of the two beests. It would be not only gointless, bnl tai loo lengthy to cover the

same ground here. What I think you are missing, though, is the whole research that Points of View exists in the first place. It is exactly what its title suggaste it to be - opinton. All that we sak of the writers who contribute to the page is that they are reasonably lucid and welf-informed when presenting their verdict on a particular leave. Bayond that, Il is entirely up to the willer to present the eranment in a way that he or she

If a fact is glossed over to justify an ergu ment, then you must take that with a plach of

selt. After ell, that's what politicians do all the tiree! You were given enfficient warning about Vic's occupation, and wa fell that we ought to give the other side, so it were, a chance to present its argument. However, I have to say that I'm gled thel you didn't egree with it and hope that you find our feature belences oul Vic's presentation of the debats.

standard of service generally these days, but that would just give away my age so I won I bother I'm impressed by your magazine generally and will pertainly continue to buy it and recommend it to everyone I meet. The world of computers is mysten ous to most all us who where born before 1960 (ph dear, I nearly pave ewey my ega againt) and anyone who can demystify it deserves real praise. Gill Callen, Worcester

I'm gled that Met took the trouble to help you out - he often replies to readers on a personal beels and even offers to take enguirles if he's not too busy. However, it seems that not everyone is as happy with Mel's service as Gill.

AND THEN AGAIN...

I would like to explain to Mat Broomfield (and his Inflated head) and Dylan Jones (Ask the Experts, March '93 sune), who has been rether misled, what 'mega' means Contrary to what Mal (and his punctured head! exerts to think, more means milion, not thousand, which as Met (and his deflated head) correctly pointed out, ectually means 1024 Therefore, a megabyte is actually 1024 kilobytes, gr 1.048.576 bytes. Don't take II personally, just sort your lives out, all right!

Adam Cadmen, Portsmouth WHO'S RACIST?

Heving just set down to read, on St David's Day, the latest edition of what I once considered the best Amiga mag, I was cheesed off to read the fol-, Richard Griffiths Irom Wales (where else?).' Why not write "I bet he's black, Jewish, disabled etc.' Perhaps we can look forward to

INSIDE INFORMATION

The World Eup has come around again - the Sensible Socre World Cup, Journes and industry types are going to desceed on the Sensi bays' Combridgeshire home to relive the glorier and disappointments of the 1990 World Cap. Your fuvourte magazine is being represented by Jon (Argentina) and Tony H (Maha). You can tell who drew the short straw in the team selection, but don't worry about the apparent disparity in tagen philities as the stats will be fixed so that everyone has is lighting chance. We'll let you know the full results soon (unless we get soundly threshed!),

entable permutations in future editional I thought that the stock stereotype for thick was the Insh In ceneral such comments have been shrupped off by the Weish nation thanks to our acknowledgad sense of humanr and recognition of the English inability to accept an eternistive point of view even if it is by a majority - witness the Maastricht debate and onr (?!) Government's resistance to adopt protection for the lower peld as

embraced by the other EC countries I buy your magazine for relexation and Informa tion, not to be motivated to respond to some arriva. tacelass peat. Therefore publish an apology à la BBC's recent Top Gear gulf and cut the recist crap len Williame, Mid-Glemorgen

I'm sure that Tony did not mean to suggest that all Weigh people are thick. In fact, reading his comment egain t have up idea how you menaned to get that interpretation from R. I think

Send your letters to: BACKCHAT, CU AMIGA, EMAP IMAGES, PRIORY COURT, 30-32 FARRINGDON LANE, LONDON EC1R 3AU. that Yorry was, in fact, saying that i he name Grifflits is Welsh in origin sed that's where he'd expect a Griffliths to live.

Now, with that over, how dare you go eroused accusing people of being rhetoric when you fill your own letter with recial remarkel in case you weren't sware, making a sweeping generalisation about all English people not accepting another's point of view is itself a recisi remark.

QUESTIONS, QUESTIONS...

Have a lew quaries about the March issue 1) First, I would like to say that the *Risablach* done was accellent. I recently bought an A1200 but found that I had to disable the GPU cache for the derno to un OK, but as I said it was lab 2) Relofficit would be of great use to mo, but whan I rem if it came up with the following massage: C-ASS(GM lailed returncode 20° Why? 3) Supering was quite good un but either I'm

slowing down or it am just a little bill too last on my jowey. 1200 They was 120 too last on my lower 1200 They had been a few rather amusting features, but I was hortfield by the review I cannot believe you gave II 90%. I've seen DPBint 4 5 advertised for about 720 and Kolffyk is \$300. I've used DPBant II for years and it's far better than Kolffyk. So, how much did Electronic Arts pay you for praising

KidPix so highly? Matthew Elvidge, Plymouth

The problems you noted an due to one of two greenling in the works. Antibick does work persectly well despite that error message you are not provided by the property of the p

The other point about KidPix is, again, error related. The actual price is £25,96, not £299 as we stated (a slight typographical error and my feut if m straid). So the accors is definitely valid.

WHERE ARE ALL THE GAMES? I've just bought on A1200, but I'm a be warried that

Implit have bought a machine that's on the way out. Already such established rames as Sierra and Indigarness have esopped producing genera for the Armiga and the heard ther US Gold have dramel-cally cut back the number of Armiga games they intend to publish over the outers of the mark year. This is esty true of other software houses, such as more of the published to the contract of the service of the contract of the contract of the service of the contract of the service of the serv

Don't pariet As you can see from this month's first ill repressione feature there are more games than ever being daveloped for the Amiga. Admitsday, it is everylist when companies such as US Gold stop publishing Amiga understand that lithey are setually a jorified importer (date/butor. As reuch of their product comes from the States, it's underse indeble that they should be cutridly beck – the Amiga lan't a popular games platform in the U.S. acid is used popular games platform in the U.S. acid is used production. But as lead, it is Amiga has a production. But as lead, it is Amiga has a healthy fully are as games mechine.

CLUB CALL

Delving deeply into this month's mailbag, CU Amiga presents another rolicking round-up of Amiga clubs.

AMI-INFO CLUB

Homselde, Higher Warberry Road, Torquey, Devon TQ1 15F. This west of England based club is currently loot ing to expand. The club only boasts 33 members at present bull would welcome applications from

Interested readers: A year's mamberfulp costs of 10 but Am-tho has e fall to offer in a continue of the other was to be offer in a continue of the other products, a special beginner's action explaining the Wondberch (Sounds familier — EC), virue checkers, a classified's section, set of the other companying section and the other companying set of the other companying set his sue, procked of the other companying set his sue, procked

with useful progrems and into

Reguler competitions with prizes of up to £50

An infrootoctory disk whan you first job

A smell PD library will soon be available

Membership infroduction appendixes, Le prizes
for those with pone in the most members dwarf as

for those who bring in the most frembers over a given period.

Discounts on selected games and productivity materials, a g. Formula One Grand Prix E3 93.

That's a fair amount of stuff for a reasonable fee. If you re-inferested send an S.A.E. to Paul Capam at the above eddress and he if send you an application form. Alternatively, burg £2.50 in the anivelope and he if send you a sample newsher on your roan to helders you bury.

WORLDWIDE PD/SHARE-

Peateria 2214, 4009 Ralingan I, Garrenny, hen by Dave Wither, and Ampe hand this Germany-based dub has been up and norming for those a year now after has sitely assumulation to those a year now after has sitely assumitation for any U.K. expair. The remotioning plea list UMBO par year of DMB par month. Apart from the Country of the MB part want to get in search, once Dave a time of the above address or call him on Glammany (1001) (2010) (

THE PERTH AND DISTRICT 14 Imria Place, Hillyland, Perth PH1 20N

This Arrige dub covers e wide range of computars, not just the Arrige. At its monthly meeting tasks are given on a plethor of subjects, including the relative ments of the CDTV, MIDI set-ups, programming and animation, etc. They also provide herdware demonstrations and give edvice to mambers with problems. Also insenders can make use of the clubs extensive PD library. Membership costs 15 per yeer and further details can be obtained from the eddress above (don't lorget to

AMIGA CHRISTCHURCH

PO Box 35107, Christechurch, New Zestend, Thanka must go to Newler kulmphase for sending us a copy of the Armage Christchurch newsietter. It's a well-procused A4 magacian winch is actually put together using and A2500 with 7MB RAM, e SZMb hard drive and a flicker few video card. It all looks highly professional and reade guite well too Armongia it is I pages, you'll find a spept on high reme thank 400 papels and unreaded he A1200 arm men thank 400 papels and unreaded he A1200 arm.

Aedubu on ne waining masses

There's also all the usual leatures you might expect in a publication of this neture—for instance, there is a lively letters column, a Motice Board where all sorts of list gan be exchanged or bought is erview of the A1200 is storred in assembly programming, some geme hints and cheats and loss and lots of add.

"On, and flary is even of a review of CU Amuge Inhans, to, of which hisy were most complimen lary - thanks very much! Amigs Christohuch is even jars so most composition and it is note to see that Commodore actively support them by lending himself bits of "In "Se only that Commodore Life only that the lend that can be seen to be a commodored to the commodored Life only that the commodify receiving the SSO and that are requirementally useful commonly meeting that the common that the co

TOTAL IRRELEVANCE

To Grant Service Servi

IN DEFENCE OF PROGRESS

As yet another Amiga appears on the shelves, Nick Veitch wonders where it will all end.

here has been a lot of lalk recently about Commodors and their marketing strategy, or tack of it, even in these hallowed pages. As we see yet enother new mechine begin to waddle of the production lines in Sociatinal, many people are starting to ask senious questions about the

Nobody complains when the car industry releasees in the model, of the lold onay are redesigned for the Austram shows Nobody computers when The Caches Show lets averyone that what they are wearing in 10 years out of date end urges people to buy some strangely coloured puace of tabric which looks good on Neore Campbell's body, but nobody lets's

Even closer to home inclody complains when the In-II manufacturers come out with a new type of CD player virtually every month. You must buy this one – it's got 32-bit oversempting, auto record shuffling, multistack partially, not to membon full interstation overboggle.

Why then do paspie complain about Commodine when they release a new machine? Well, it a understandable in a way. If you have just bought a compute believing it to be claif or this art, end a new model is released the next day, it's only natural to be chavaled. Would you lest the same way it is new CD player is fannohed the day settle you make a purchase? Probably not, but than again is probebly desen't make much difference why needs open further or who make your needs open further.

WHAT'S THE DIFFERENCE?

You buy a CD player to play compact dielas Likewise you buy a computer to run software. So why leat chasted when a new model appears? You can still run exactly the aems software say you out of when you first bought the machine it still has all the specification it had when you bongnit it has the transportation of the diversity to bongnit in your players. It is all the properties of innovatant feature, the amministing glean of true custing adde behandown?

There is perhaps aligntly more cause for con cern when your computer in superseded by a new model. There is always the worry that the software and peripherals of the future will no longer be obliged to be compatible to yesterday's model. To a pertain extent that is true, but looking at the Arriga, it is perhaps less true than with other machines. The Amiga 500 and 500+ have been out of production for elmost a year now. Since then there heve been no new Amigas lennched which have a DMA side expansion port. Has this stopped development of penpherals for the part? Maybe there aren't a great deal of companies actively developing for the 500's expansion slot, but it is still very much supported. Take a look back through the pages of this magazine end could how many hard drives and RAM expansions for the A500 you can find it is not an inconsider-

A computer doesn't die simply becense it is no longer manufactured, aspecielly when it is still more or less competible with its successors. Even if the entire Amiga range were to be discontinued, the third party dealare would still be producing new

peopherels for years to come

THERE'LL BE TEARS Without a doubt the Arriga community has now

become e Neches society – those with AGA and those without. It is eight with its modesials to breach. There is no wey that an ASO, or AGOS for that matrie, can be suppreded to the AGA chipsel That is neily the first division to supper in the Workpeach in vividence do not really connit as a empiricostacióe to Ampe harmony – suppredes wein made svelabile by Commodore tilemiselves.

Even the AGA chipsel will not really create an Ampa sparthed. Software may be written to take advantage of the AGA chipsel of it is present, but may sall work on older machine, and probably will it dovelopers have any sense. Colviciously software which as written particularly to take educatage of AGA architecture may be somewhat redundent Telegraphic for your Legisland by buying Telegraphic for your Legisland.

There is no point in trying to hold back the leds of technology. Commodore would be guilty of its worse crimsal if they decided not to release new mackines. As long as it is done responsibly, of conrae there is no denying that the release and subsequent discontinuation of the ASOB-was so bid of a black says for Commodore, it was not meant to happen, but then what real intern was done? There ASOB--- has both has an IDE interface the 500-has so IDE interface the 500-has en DIAD port, Bid ceal.

A SPORTING CHANCE?

Their are sport line has cleantly grown in popularity since short 1982 — a sport which has developed into a tradition in some circles. The name of the game is wingelight at Controdors Basically they can do no night. If they don't release new machines they are linguing behind, not show ing the propar commitment at When they do they

are accused of selling the proble down the invest Whistever the receive ment of Commodarie's strategy and however high or low in the rankings of the Wil-Pound ood quyer's not 100 thay are, the Amga is a very special machine. Not only has it had the irradiantion of the computer-thying public for seven years, it has developed along with its owners. No other notine computer has gone through as many variations — not just pointies reconfignations, but actual developments.

The march of progress goes on New machines en , schnology-ede, old his often before they need were lenn-cheef and they execute the march of the service and they are also march of the service and they are they can be served to the service as either intallectually disantimentation of just a map of legging peachwist. You know the risks, possible to the service which worth last former than the service which were the service and the service which worth last former than the service which were the service and the service which were the service and the service which were the service and the service and the service which were the service and the servi

As for me, I'm holding out for the 060 based mechine .

Mick Veitanequid limto point out to the Metropellin in Fellos that he in not respensible for the recent apairs of phone box reblectes and, by the way, have year







PC1204 4M8 with clock, no FPU Processor 2.185.95 PC1204 4M8 with clock, 20MHz 6888 FPU 2259.95 PC1204 4M8 with clock, 20MHz 6888 FPU 2279.95 PC1204 4M8 with clock, 33MHz 68882 FPU 2299.95 PC1204 4M8 with clock, 40MHz 68882 FPU 2299.95 PC1204 4M8 with clock, 50MHz 68882 FPU 2339.95 son for the Amigo 1200 is now available. The PC1204 includes these many features.

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means that your A1200 can run of its maximum speed

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4 84 times forms	4 79 tyres faster
2 19 times faster	2 17 times foster
2.96 times fosser	2 93 teres foster
	2 19 times faster

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WE NEED MASS TRANSIT - BUT LOCAL AND NATIONAL GOVERNMENTS JUST CAN'T GET IT RIGHT, IF YOU CAN CREATE A SUCCESSFUL MASS TRANSIT OPERATION YOU'LL BE DOING THE WORLD A SERVICE

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BANK, BUY AND DEVELOP LAND, EXPAND YOUR HOLDINGS INTO HOTELS, FACTORIES, RESORTS AND DEPARTMENT STORES, PLAY THE STOCK MARKEY, AND BUILO A FINANCIAL EMPIRE.

AVAILABLE "OW ON AMIGA



"A-TRAIN may be the best game we have ever played. It is so good that within an hour of apening the box we were hooked. A-TRAIN is easy to learn, and its play is infinitely varied. It rates an A+."LOS ANGELES TIMES











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